

Henkel Corporation

Digi-Key Corporation 16166 125th Ave NE Thief River Falls, MN 56701-8489 United States

Date:

10/20/2021

#### Dear Valued Customer:

Enclosed please find a new or revised Safety Data Sheet(s) (SDSs). You are receiving this/these in accordance with country/regional regulatory requirements.

Item Number MM00994	IDH Number 386832	Product Description LOCTITE 370 SN60 5C 1.63MM S known as 60/40 370 5C 1.63MM 0.5KG AM (
MM02104	796037	LOCTITE C 511 97SC 3C 0.38MM G known as 97SC C511 3C 0.38MM 0.25KG AM
MM01054	450314	LOCTITE C 400 SN63 3C 0.56MM S known as 63/37 C400 3C 0.56MM 0.5KG AM
MM01879	673831	LOCTITE C 400 97SC 3C 1.22MM H known as 97SC C400 3C 1.22MM 0.5KG AM
MM01066	395451	LOCTITE C 502 SN63 5C 0.81MM S known as 63/37 C502 5C 081MM 0.5KG AM (
MM00991	386820	LOCTITE HYDX SN63 3C 0.56MM R known as 63/37 HX 3C 0.56MM 0.25KG AM (
MM01006	397952	LOCTITE 366 HMP 5C 0.56MM R known as HMP 366 5C 0.56MM 0.25KG AM (0
M00449 M00603 MM01921	519430 760089 706397	LOCTITE MP 200 RWF 27U known as Tacky Flux MP200 LOCTITE MFR 301 known as MFR301 Flux Pen LOCTITE TTC-LF 32 known as MM01921 Tinner Cleaner

Previous versions of these documents should be replaced by the newer version.

SDSs should be forwarded to personnel responsible for workplace safety and to employees who will be handling this/these product(s) to ensure awareness and understanding of safety concerns and regulatory responsibilities. SDSs must also be forwarded on to your customers if you further distribute or resell the product.

If you have any questions, please contact your local Product Safety and Regulatory Affairs Specialist.



Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your\_company.com).

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

Sincerely,

Henkel Product Safety and Regulatory Affairs



Revision Number: 007.0 Issue date: 04/22/2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE C 502 SN63 5C 0.81MM S

known as 63/37 C502 5C 081MM

0.5KG AM (

Product type/use: Restriction of Use:

None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

395451

Item number:

MM01066

Region:

**United States** 

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

DANGER:

HARMFUL IF SWALLOWED OR IF INHALED.

MAY CAUSE DROWSINESS OR DIZZINESS.

MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	4
REPRODUCTIVE TOXICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

## PICTOGRAM(S)



#### **Precautionary Statements**

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fumes. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-

ventilated area. Wear protective gloves, clothing, eye and face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh

air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

Storage: Disposal: physician if you feel unwell. IF exposed or concerned: Get medical attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

IDH number: 395451

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Tin	7440-31-5	60 - 80	
Lead	7439-92-1	30 - 60	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). Get medical attention. Wash clothing

before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

Do not induce vomiting. Never give anything by mouth to an unconscious Ingestion:

person. Get medical attention.

Symptoms: See Section 11.

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Do not use water on fires where molten metal is present.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of Metals in Section 3.

Formaldehyde. High temperatures may produce heavy metal dust, fumes or

vapours. The flux medium will give rise to irritating fumes.

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** 

Do not allow product to enter sewer or waterways.

Clean-up methods:

Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Scrape up spilled material and place in a closed container

for disposal.

# 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Wear suitable protective clothing, gloves

and eye/face protection. Avoid contact with eyes, skin and clothing. Avoid skin contact with molten resins. When using, do not eat, drink or smoke. Wash

thoroughly after handling.

Storage: Store in original container until ready to use. Keep in a cool, well ventilated

area away from heat, sparks and open flame. Keep container tightly closed

until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tin	2 mg/m3 TWA	2 mg/m3 PEL (as Sn)	None	None
Lead	0.05 mg/m3 TWA (as Pb)	0.05 mg/m3 TWA 0.03 mg/m3 OSHA_ACT	None	None

Engineering controls: Use only with adequate ventilation. Provide adequate local exhaust ventilation

to maintain worker exposure below exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid Color: Sqray

Odor: Slay

Odor threshold:Not available.pH:Not available.Vapor pressure:Not available.Boiling point/range:Not available.

Melting point/ range: Not available. Specific gravity: 8.4

Vapor density: Not available. Flash point: Product is a solid. Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available Autoignition temperature: Not available. Flammability Not applicable Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available.

VOC content: < 5 % (calculated)
Viscosity: Not available.

Pecomposition temperature: Not available.

Not available.

Not available.

# 10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of storage and use.

Hazardous reactions:

Will not occur

Hazardous decomposition products:

Oxides of carbon. Oxides of Metals in Section 3. Formaldehyde. Thermal decomposition can

lead to release of irritating gases and vapors.

Incompatible materials:

Acids. Bases. Oxidizing agents.

Reactivity:

Not available.

Conditions to avoid:

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation:

Harmful if inhaled. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified by NIOSH as a potential occupational carcinogen. Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures. Vapor overexposure may cause drowsiness. Dizziness.

May cause skin irritation.

Skin contact: Eye contact:

May cause eye irritation.

Ingestion:

Harmful if swallowed. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning include

abdominal pain, nausea, vomiting, and headache.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Lead	None	Behavioral, Blood, Developmental, Eyes, Gastrointestinal, Kidney, Liver, Muscle, Nervous System, Reproductive, Skin, Some evidence of carcinogenicity, Thyroid

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Lead	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

# 13. DISPOSAL CONSIDERATIONS

#### Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal. Do not

dispose of in an uncontrolled manner.

Hazardous waste number:

This product contains a component or components identified as hazardous

under 40 CFR 261.24. D008: Lead

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

#### U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group:

None None

#### International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division:

None None

Identification number: Packing group:

None

#### Water Transportation (IMO/IMDG)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

None

Packing group:

None

## 15. REGULATORY INFORMATION

## United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

CERCLA/SARA Section 311/312:

None above reporting de minimis.

Immediate Health, Delayed Health

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Lead (CAS# 7439-92-1).

**CERCLA Reportable quantity:** 

Lead (CAS# 7439-92-1) 10 lbs. (4.54 kg)

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

#### Canada Regulatory Information

CEPA DSL/NDSL Status:

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

04/22/2019

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.



Issue date: 07/12/2018 Revision Number: 004.0

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE HYDX SN63 3C 0.56MM R

known as 63/37 HX 3C 0.56MM 0.25KG

AM (

Product type: Restriction of Use: Solder Wire None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

386820

Item number:

MM00991 **United States** 

Region: Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER:

HARMFUL IF SWALLOWED OR IF INHALED.

MAY CAUSE DROWSINESS OR DIZZINESS.

MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	4
REPRODUCTIVE TOXICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

#### PICTOGRAM(S)



### **Precautionary Statements**

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fumes. Wash affected area thoroughly after

handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-

ventilated area. Wear protective gloves, clothing, eye and face protection. Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh

air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

physician if you feel unwell. IF exposed or concerned: Get medical attention.

Storage: Disposal: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Product name: LOCTITE HYDX SN63 3C 0.56MM R known as 63/37 HX 3C 0.56MM 0.25KG AM ( IDH number: 386820

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See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Tin	7440-31-5	60 - 70	
Lead	7439-92-1	30 - 40	
Polyethylene glycol MW 4000	25322-68-3	1 - 5	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. If symptoms develop

and persist, get medical attention.

Symptoms: See Section 11.

# 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Do not use water on fires where molten metal is present.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of Metals in Section 3.

Formaldehyde. High temperatures may produce heavy metal dust, fumes or

vapours. The flux will give rise to irritating fumes.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and

eye/face protection. Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior

to clean up.

## 7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Wear suitable protective clothing, gloves and

eye/face protection. Avoid contact with eyes, skin and clothing. When using do

not eat, drink or smoke. Wash thoroughly after handling.

Storage: Store in original container until ready to use. Store in a cool, dry, well-

ventilated area.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tin	2 mg/m3 TWA	2 mg/m3 PEL (as Sn)	None	None
Lead	0.05 mg/m3 TWA (as Pb)	0.05 mg/m3 TWA 0.03 mg/m3 OSHA_ACT	None	None
Polyethylene glycol MW 4000	None	None	10 mg/m3 TWA Particulate.	None

Engineering controls: Use adequate ventilation to remove molten vapors or fumes. Provide

adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

**Eye/face protection:** Safety goggles or safety glasses with side shields.

**Skin protection:** Chemical resistant, impermeable gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Color: Gray

Odor: None Odor threshold: Not available.

pH: Not available.

Vapor pressure:

Boiling point/range:

Melting point/ range:

Not available.

Not available.

Vapor density:

Flash point:

Not available.

Not available.

Does not flash.

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Not available.

Not available.

Not available.

Flammability: Not applicable
Evaporation rate: Not available.
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available.

VOC content: < 5 % (calculated)
Viscosity: Not available.
Decomposition temperature: Not available.

IDH number: 386820 Product name: LOCTITE HYDX SN63 3C 0.56MM R known as 63/37 HX 3C 0.56MM 0.25KG AM (

Page 3 of 6

# 10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of storage and use.

Hazardous reactions:

Will not occur

Hazardous decomposition

Oxides of carbon. Oxides of Metals in Section 3. Formaldehyde. Thermal decomposition can

lead to release of irritating gases and vapors.

Incompatible materials:

Strong acids and strong bases. Oxidizing agents.

Reactivity:

products:

Not available.

Conditions to avoid:

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation:

Harmful if inhaled. Inhalation of processing fumes may be harmful. Vapor overexposure may cause drowsiness. Dizziness. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified by NIOSH as a potential occupational carcinogen. Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures.

Skin contact: Eye contact:

May cause skin irritation. May cause eye irritation.

Ingestion:

Harmful if swallowed. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning include

abdominal pain, nausea, vomiting, and headache.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Lead	None	Behavioral, Blood, Developmental, Eyes, Gastrointestinal, Kidney, Liver, Muscle, Nervous System, Reproductive, Skin, Some evidence of carcinogenicity, Thyroid
Polyethylene glycol MW 4000	None	Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Lead	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Polyethylene glycol MW 4000	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal. Do not

dispose of in an uncontrolled manner.

Hazardous waste number:

D008: Lead

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

#### U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

None

Packing group:

None

#### International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division:

None None

Identification number:

None

#### Water Transportation (IMO/IMDG)

Packing group:

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

None

Packing group:

None

# 15. REGULATORY INFORMATION

#### **United States Regulatory Information**

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

CERCLA/SARA Section 311/312:

None above reporting de minimis. Immediate Health, Delayed Health

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372), Lead (CAS# 7439-92-1)

**CERCLA Reportable quantity:** 

Lead (CAS# 7439-92-1) 10 lbs. (4.54 kg)

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

IDH number: 386820

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List

Product name: LOCTITE HYDX SN63 3C 0.56MM R known as 63/37 HX 3C 0.56MM 0.25KG AM ( Page 5 of 6

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

07/12/2018

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.



Revision Number: 005.0 Issue date: 07/19/2018

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

**LOCTITE C 400 97SC 3C 1.22MM H** 

known as 97SC C400 3C 1.22MM

0.5KG AM

Product type: Restriction of Use: Solder Wire None identified

Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

673831

Item number:

Region:

MM01879 **United States** 

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

## **EMERGENCY OVERVIEW** NOT CLASSIFIED. READ ENTIRE SAFETY DATA SHEET

HAZARD CLASS		HAZARD CATEGORY
None		None
	PICTOGRAM(S)	
	None	

# **Precautionary Statements**

Prevention:

Response:

Not prescribed

Storage:

Not prescribed Not prescribed

Disposal:

Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Tin	7440-31-5	90 - 100
Silver	7440-22-4	1 - 5

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. If symptoms develop

and persist, get medical attention.

Symptoms: See Section 11.

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide. Do not use water on molten metal.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: None

IDH number: 673831

Hazardous combustion products: Oxides of carbon. Formaldehyde. Oxides of Metals in Section 3. High

temperatures may produce heavy metal dust, fumes or vapors. Thermal

decomposition can lead to release of irritating gases and vapors.

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Do not allow product to enter sewer or waterways.

Ensure adequate ventilation. Wear suitable protective clothing, gloves and Clean-up methods:

eye/face protection. Scrape up as much material as possible. Keep in suitable and closed containers for disposal. Refer to Section 8 "Exposure Controls /

Personal Protection" prior to clean up.

## 7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Wear suitable protective clothing, gloves and

eye/face protection. Avoid skin contact with molten resins. Avoid contact with eyes, skin and clothing. When using, do not eat, drink or smoke. Wash

thoroughly after handling.

Store in original container until ready to use. Store in a cool, dry area. Storage:

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tin	2 mg/m3 TWA	2 mg/m3 PEL (as Sn)	None	None
Silver	0.1 mg/m3 TWA Dust and fume.	0.01 mg/m3 PEL (as Ag)	None	None

Engineering controls: Use adequate ventilation to remove molten vapors or fumes. Provide

adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Use NIOSH approved respirator if there is potential to exceed exposure Respiratory protection:

Eye/face protection: Safety goggles or safety glasses with side shields

Skin protection: Chemical resistant, impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid Gray Color:

Odor: None

Not available. Odor threshold: pH: Not available.

Negligible vapor pressure at ambient temperatures. Vapor pressure:

Boiling point/range: Not available

Melting point/ range: 217 °C (422.6 °F) (solder alloy)

Specific gravity: 7.5

Vapor density: Not available. Flash point: Product is a solid. Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available.

Flammability Not applicable Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available.

VOC content: Negligible Not available. Viscosity: Decomposition temperature: Not available

# 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition Oxides of carbon. Oxides of Metals in Section 3. Formaldehyde. Thermal decomposition can products:

lead to release of irritating gases and vapors.

Incompatible materials: Strong oxidizing agents. Strong acids and strong bases.

Reactivity: Not available.

Conditions to avoid: Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

Product name: LOCTITE C 400 97SC 3C 1.22MM H known as 97SC C400 3C 1.22MM 0.5KG AM IDH number: 673831 Page 3 of 5

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation:

Inhalation of processing fumes may be harmful. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified by NIOSH as a potential occupational carcinogen. Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large

Skin contact:

May cause skin irritation. Argyria (a non-toxic, cosmetic blue-gray discoloration of the skin and

mucous membranes that is irreversible).

Eve contact:

May cause eve irritation.

Ingestion:

May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Silver	Oral LD50 (Rat) = > 5,000 mg/kg Dermal LD50 (Rat) = > 2,000 mg/kg	Allergen, Eyes, Irritant, Respiratory, Skin

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Silver	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal. Do not

dispose of in an uncontrolled manner.

Hazardous waste number:

D011. Silver.

#### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

Packing group:

None None

International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division:

None None

Identification number:

Packing group:

IDH number: 673831

None

Product name: LOCTITE C 400 97SC 3C 1.22MM H known as 97SC C400 3C 1.22MM 0.5KG AM Page 4 of 5

Water Transportation (IMO/IMDG)

Proper shipping name: Hazard class or division: Not regulated

Identification number:

None None

Packing group:

None

# 15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:

None above reporting de minimis. Immediate Health, Delayed Health

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Silver (CAS# 7440-22-4).

California Proposition 65:

No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

**CEPA DSL/NDSL Status:** 

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

07/19/2018

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> Product name: LOCTITE C 400 97SC 3C 1.22MM H known as 97SC C400 3C 1.22MM 0.5KG AM Page 5 of 5

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Issue date: 07/12/2018 Revision Number: 006.0

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE C 400 SN63 3C 0.56MM S

0.5KG AM

Product type: Restriction of Use: Solder Wire None identified

Company address: Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067

IDH number: known as 63/37 C400 3C 0.56MM

Item number:

450314

Region:

MM01054 **United States** 

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER:

HARMFUL IF SWALLOWED OR IF INHALED. MAY CAUSE DROWSINESS OR DIZZINESS.

MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	4
REPRODUCTIVE TOXICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

## PICTOGRAM(S)



#### **Precautionary Statements**

IDH number: 450314

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fumes. Wash affected area thoroughly after

handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-

ventilated area. Wear protective gloves, clothing, eye and face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh

air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

physician if you feel unwell. IF exposed or concerned: Get medical attention.

Storage: Disposal:

Response:

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

> Product name: LOCTITE C 400 SN63 3C 0.56MM S known as 63/37 C400 3C 0.56MM 0.5KG AM Page 1 of 6

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Tin	7440-31-5	60 - 70	
Lead	7439-92-1	30 - 40	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. If symptoms develop

and persist, get medical attention.

Symptoms: See Section 11.

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Do not use water on fires where molten metal is present.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of Metals in Section 3.

Formaldehyde. High temperatures may produce heavy metal dust, fumes or

vapours. The flux will give rise to irritating fumes.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and

eye/face protection. Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior

to clean up.

## 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Wear suitable protective clothing, gloves

and eye/face protection. Avoid contact with eyes, skin and clothing. When

using do not eat, drink or smoke. Wash thoroughly after handling.

Storage: For safe storage, store between 15 °C (59°F) and 30 °C (86°F)

Keep cool in accordance with information on label and in Technical Data

Sheets.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tin	2 mg/m3 TWA	2 mg/m3 PEL (as Sn)	None	None
Lead	0.05 mg/m3 TWA (as Pb)	0.05 mg/m3 TWA 0.03 mg/m3 OSHA_ACT	None	None

Engineering controls: Use adequate ventilation to remove molten vapors or fumes. Provide

adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid
Color: Gray
Odor: None

Viscosity:

Decomposition temperature:

Odor threshold:
pH:
Not available.
Vapor pressure:
Not available.
183 °C (361.4 °F)

Specific gravity: 8.4 Vapor density: Not available Flash point: Product is a solid. Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability Not applicable Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available. **VOC** content: < 5 % (calculated)

IDH number: 450314 Product name: LOCTITE C 400 SN63 3C 0.56MM S known as 63/37 C400 3C 0.56MM 0.5KG AM Page 3 of 6

Not available

Not available

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Oxides of Metals in Section 3. Formaldehyde Thermal decomposition can

lead to release of irritating gases and vapors.

Incompatible materials: Strong oxidizing agents. Strong acids and strong bases.

Reactivity: Not available.

Conditions to avoid: Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation: Harmful if inhaled. Inhalation of processing fumes may be harmful. Vapor overexposure may

cause drowsiness. Dizziness. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified by NIOSH as a potential occupational carcinogen. Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's

content to toxic levels.

Skin contact: May cause skin irritation.

Eye contact: May cause eye irritation.

Ingestion: Harmful if swallowed. Lead is a cumulative poison and continuous exposure to small amounts

over time can raise the body's content to toxic levels. Symptoms of lead poisoning include

abdominal pain, nausea, vomiting, and headache.

Hazardous Component(s)	LD50s and LC50s Immediate and Delayed Health E	
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Lead	None	Behavioral, Blood, Developmental, Eyes, Gastrointestinal, Kidney, Liver, Muscle, Nervous System, Reproductive, Skin, Some evidence of carcinogenicity, Thyroid

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Lead	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No

# 12. ECOLOGICAL INFORMATION

Ecological information:

IDH number: 450314

Not available.

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal. Do not

dispose of in an uncontrolled manner.

Hazardous waste number:

D008: Lead

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

#### U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group:

None None

# International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division:

None None

Identification number: Packing group:

None

### Water Transportation (IMO/IMDG)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group:

None None

## 15. REGULATORY INFORMATION

#### **United States Regulatory Information**

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis.

CERCLA/SARA Section 311/312:

Immediate Health, Delayed Health

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Lead (CAS# 7439-92-1).

**CERCLA Reportable quantity:** 

Lead (CAS# 7439-92-1) 10 lbs. (4.54 kg)

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

#### Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List

IDH number: 450314

Product name: LOCTITE C 400 SN63 3C 0.56MM S known as 63/37 C400 3C 0.56MM 0.5KG AM

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# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

07/12/2018

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Product name: LOCTITE C 400 SN63 3C 0.56MM S known as 63/37 C400 3C 0.56MM 0.5KG AM Page 6 of 6



Revision Number: 006.0 Issue date: 04/24/2019

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE 366 HMP 5C 0.56MM R

known as HMP 366 5C 0.56MM 0.25KG

AM (0

Product type/use: Restriction of Use: Solder Wire

e: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

397952

Item number: Region: MM01006 United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER:

HARMFUL IF SWALLOWED OR IF INHALED.

MAY CAUSE DROWSINESS OR DIZZINESS.

MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED.

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	4
REPRODUCTIVE TOXICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

PICTOGRAM(S)



#### **Precautionary Statements**

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fumes. Wash affected area thoroughly after

handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing, eye and face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh

air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

Storage: Disposal:

IDH number: 397952

physician if you feel unwell. IF exposed or concerned: Get medical attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Product name: LOCTITE 366 HMP 5C 0.56MM R known as HMP 366 5C 0.56MM 0.25KG AM (0

Page 1 of 6

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Lead	7439-92-1	80 - 100	
Tin	7440-31-5	1 - 5	
Silver	7440-22-4	1 - 5	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.

Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious

person. Get medical attention.

Symptoms: See Section 11.

Skin contact:

# 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Do not use water on fires where molten metal is present.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of Carbon. Oxides of Metals in Section 3. Formaldehyde. High

temperatures may produce heavy metal dust, fumes or vapours. The flux

medium will give rise to irritating fumes.

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear protective clothing, gloves and safety

glasses. Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to

clean up.

# 7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with eyes, skin and clothing. Avoid skin contact with molten resins. When using, do not eat, drink or smoke. Wash thoroughly after handling.

Storage:

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Store in original container until ready to use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Lead	0.05 mg/m3 TWA (as Pb)	0.05 mg/m3 TWA 0.03 mg/m3 OSHA_ACT	None	None
Tin	2 mg/m3 TWA	2 mg/m3 PEL (as Sn)	None	None
Silver	0.1 mg/m3 TWA Dust	0.01 mg/m3 PEL (as	None	None

Engineering controls:

Use adequate ventilation to remove molten vapors or fumes. Provide

adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Solid, Paste

Color:

Gray

Odor:

Mild

Odor threshold: pH:

Not available.

Vapor pressure:

Not available. Not available

Boiling point/range:

Not available.

Melting point/ range:

Not available.

Specific gravity:

11.1 Not available.

Vapor density: Flash point:

> 100 °C (> 212°F)

Flammable/Explosive limits - lower:

Not available.

Flammable/Explosive limits - upper:

Not available.

Autoignition temperature:

Not available.

Not applicable

Flammability Evaporation rate:

Not available.

Solubility in water:

Insoluble Not available.

Partition coefficient (n-octanol/water):

VOC content:

IDH number: 397952

< 5 %

Viscosity:

Not available.

Decomposition temperature:

Not available.

Page 3 of 6

## 10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of storage and use

Hazardous reactions:

Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Oxides of Metals in Section 3. Formaldehyde. Thermal decomposition can

lead to release of irritating gases and vapors.

Incompatible materials:

Strong oxidizing agents. Strong acids and strong bases.

Reactivity:

Not available.

Conditions to avoid:

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation:

Harmful if inhaled. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified by NIOSH as a potential occupational carcinogen. Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures. Vapor overexposure may cause drowsiness. Dizziness.

Skin contact:

May cause skin irritation. Argyria (a non-toxic, cosmetic blue-gray discoloration of the skin and

mucous membranes that is irreversible).

Eye contact:

May cause eye irritation.

Ingestion:

Harmful if swallowed. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning include

abdominal pain, nausea, vomiting, and headache.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Lead	None	Behavioral, Blood, Developmental, Eyes, Gastrointestinal, Kidney, Liver, Muscle, Nervous System, Reproductive, Skin, Some evidence of carcinogenicity, Thyroid
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Silver	Oral LD50 (Rat) = > 5,000 mg/kg Dermal LD50 (Rat) = > 2,000 mg/kg	Allergen, Eyes, Irritant, Respiratory, Skin

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Lead	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Tin	No	No	No
Silver	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available

Product name: LOCTITE 366 HMP 5C 0.56MM R known as HMP 366 5C 0.56MM 0.25KG AM (0 IDH number: 397952 Page 4 of 6

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: D011. Silver. D008: Lead

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

#### U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None None

Identification number: Packing group:

None

#### International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division: Identification number:

None None

Packing group:

None

#### Water Transportation (IMO/IMDG)

Proper shipping name:

Not regulated

Hazard class or division: Identification number:

None None

Packing group:

None

# 15. REGULATORY INFORMATION

#### **United States Regulatory Information**

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis.

CERCLA/SARA Section 311/312:

Immediate Health, Delayed Health

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Lead (CAS# 7439-92-1). Silver (CAS# 7440-22-4).

**CERCLA Reportable quantity:** 

Lead (CAS# 7439-92-1) 10 lbs. (4.54 kg)

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

IDH number: 397952

04/24/2019

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Revision Number: 006.0 Issue date: 12/17/2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE C 511 97SC 3C 0.38MM G

known as 97SC C511 3C 0.38MM

0.25KG AM

Product type/use: Restriction of Use:

None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

Solder Wire

Region:

Item number:

IDH number:

MM02104 **United States** 

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

796037

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW** NOT CLASSIFIED. READ ENTIRE SAFETY DATA SHEET.

HAZARD CLASS	HAZARD CATEGORY
None	None
PICTOGRA	AM/C)
PICTOGRA	AIVI(3)

#### **Precautionary Statements**

Prevention:

Response:

Not prescribed

Storage:

Not prescribed

Disposal:

Not prescribed Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Tin	7440-31-5	80 - 100	
Silver	7440-22-4	1 - 5	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections

## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious

person. If symptoms develop and persist, get medical attention.

Symptoms: See Section 11.

# 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Do not use water on fires where molten metal is present.

Unusual fire or explosion hazards: None

IDH number: 796037

Hazardous combustion products: Oxides of carbon. Metal oxide fumes. Formaldehyde. High temperatures may

produce heavy metal dust, fumes or vapors. The flux will give rise to irritating

fumes.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear protective clothing, gloves and safety

glasses. Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to

clean up.

#### 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Wear suitable protective clothing, gloves

and eye/face protection. Avoid skin contact with molten resins. Avoid contact with eyes, skin and clothing. When using do not eat, drink or smoke. Wash

thoroughly after handling.

Storage: Store in original container until ready to use. Keep in a cool, well ventilated

area away from heat, sparks and open flame. Keep container tightly closed

until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tin	2 mg/m3 TWA Inhalable fraction.	2 mg/m3 PEL (as Sn)	None	None
Silver	0.1 mg/m3 TWA Dust and fume.	0.01 mg/m3 PEL (as Ag)	None	None

Engineering controls: Use adequate ventilation to remove molten vapors or fumes. Provide

adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Cored Wire

Color: Metallic, Gray
Odor: None

Odor threshold: Not available.

pH: Not available.

Vapor pressure: Negligible vapor pressure at ambient temperatures.

Boiling point/range: Not available.

Melting point/ range: 217 °C (422.6 °F) (solder alloy)

Melting point/ range: 217 °C (422.6 °F) (solder alloy) Specific gravity: 7.5

Vapor density: Heavier than air. Flash point: Does not flash.

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:

Not available.
Not available.
Not available.

Flammability Not applicable
Evaporation rate: Not available.
Solubility in water: Insoluble

Partition coefficient (n-octanol/water):

VOC content:

Viscosity:

Decomposition temperature:

Not available.

Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

IDH number: 796037

Hazardous decomposition Oxides of carbon. Metal oxide fumes. Formaldehyde. Thermal decomposition can lead to

products: release of irritating gases and vapors.

Incompatible materials: Oxidizing agents. Acids and bases.

Reactivity: Not available.

Conditions to avoid: Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

Product name: LOCTITE C 511 97SC 3C 0.38MM G known as 97SC C511 3C 0.38MM 0.25KG AM Page 3 of 5

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation:

Inhalation of processing fumes may be harmful. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified by NIOSH as a potential occupational carcinogen. Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large

exposures

Skin contact:

May cause skin irritation. Argyria (a non-toxic, cosmetic blue-gray discoloration of the skin and

mucous membranes that is irreversible).

Eye contact:

May cause eye irritation.

Ingestion:

May cause gastrointestinal tract irritation if swallowed

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Silver	Oral LD50 (Rat) = > 5,000 mg/kg Dermal LD50 (Rat) = > 2,000 mg/kg	Allergen, Eyes, Irritant, Respiratory, Skin

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Silver	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal. Do not

dispose of in an uncontrolled manner.

Hazardous waste number:

D011. Silver.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

## U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:
Not regulated
None
None
None

#### International Air Transportation (ICAO/IATA)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None
None

Product name: LOCTITE C 511 97SC 3C 0.38MM G known as 97SC C511 3C 0.38MM 0.25KG AM Page 4 of 5

Water Transportation (IMO/IMDG)

Proper shipping name: Hazard class or division: Identification number:

Not regulated

None None None

Packing group:

## 15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis.

CERCLA/SARA Section 311/312:

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Silver (CAS# 7440-22-4).

California Proposition 65:

No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

IDH number: 796037

12/17/2019

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Product name: LOCTITE C 511 97SC 3C 0.38MM G known as 97SC C511 3C 0.38MM 0.25KG AM

Page 5 of 5



Revision Number: 005.0 Issue date: 04/24/2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

**LOCTITE 370 SN60 5C 1.63MM S** 

known as 60/40 370 5C 1.63MM 0.5KG

AM (

Product type/use: Restriction of Use: Solder Wire

None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

386832

Item number: Region:

MM00994 **United States** 

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER:

HARMFUL IF SWALLOWED OR IF INHALED.

MAY CAUSE DROWSINESS OR DIZZINESS.

MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

**EXPOSURE** 

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	4
REPRODUCTIVE TOXICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

### PICTOGRAM(S)



#### **Precautionary Statements**

IDH number: 386832

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fumes. Wash affected area thoroughly after

handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-

ventilated area. Wear protective gloves, clothing, eye and face protection. Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh

air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

physician if you feel unwell. IF exposed or concerned: Get medical attention.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Storage: Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Product name: LOCTITE 370 SN60 5C 1.63MM S known as 60/40 370 5C 1.63MM 0.5KG AM (

Page 1 of 6

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Tin	7440-31-5	30 - 60	
Lead	7439-92-1	30 - 60	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. If symptoms develop

and persist, get medical attention.

Symptoms: See Section 11.

# 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Do not use water on fires where molten metal is present.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of Carbon. Oxides of Metals in Section 3. Formaldehyde. High

temperatures may produce heavy metal dust, fumes or vapours. The flux

medium will give rise to irritating fumes.

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear protective clothing, gloves and safety

glasses. Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to

clean up.

## 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Wear suitable protective clothing, gloves

and eye/face protection. Avoid contact with eyes, skin and clothing. Avoid skin contact with molten resins. When using, do not eat, drink or smoke. Wash

thoroughly after handling.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use. Store in original container

until ready to use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tin	2 mg/m3 TWA	2 mg/m3 PEL (as Sn)	None	None
Lead	0.05 mg/m3 TWA (as Pb)	0.05 mg/m3 TWA 0.03 mg/m3 OSHA_ACT	None	None

Engineering controls: Use adequate ventilation to remove molten vapors or fumes. Provide

adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Safety goggles or safety glasses with side shields. Eye/face protection:

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Color: Gray Metallic Odor:

Odor threshold: Not available. pH: Not available

Vapor pressure: Not available. Boiling point/range: Not available. Melting point/ range: Not available.

Specific gravity: 8.5

Vapor density: Not available. Flash point: Does not flash. Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability Not applicable

Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available.

**VOC** content: 0.00 %; 0 g/l Viscosity: Not available.

Decomposition temperature: Not available

# 10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of storage and use.

Hazardous reactions:

Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Oxides of Metals in Section 3. Formaldehyde. Thermal decomposition can

lead to release of irritating gases and vapors.

Incompatible materials:

Strong oxidizing agents. Strong acids and strong bases.

Reactivity:

Not available

Conditions to avoid:

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

# TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation:

Harmful if inhaled. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified by NIOSH as a potential occupational carcinogen. Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large

exposures. Vapor overexposure may cause drowsiness. Dizziness.

Skin contact:

May cause skin irritation. May cause eye irritation.

Eye contact: Ingestion:

Harmful if swallowed. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning include

abdominal pain, nausea, vomiting, and headache.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Lead	None	Behavioral, Blood, Developmental, Eyes, Gastrointestinal, Kidney, Liver, Muscle, Nervous System, Reproductive, Skin, Some evidence of carcinogenicity, Thyroid

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Lead	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

Product name: LOCTITE 370 SN60 5C 1.63MM S known as 60/40 370 5C 1.63MM 0.5KG AM ( Page 4 of 6

IDH number: 386832

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal. Do not

dispose of in an uncontrolled manner.

Hazardous waste number:

D008: Lead

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

#### U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

None None

Packing group:

Proper shipping name:

International Air Transportation (ICAO/IATA)

Not regulated

Hazard class or division:

None None

Identification number:

None

Water Transportation (IMO/IMDG)

Packing group:

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

None

Packing group:

None

# 15. REGULATORY INFORMATION

#### United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis.

CERCLA/SARA Section 311/312:

Immediate Health, Delayed Health

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Lead (CAS# 7439-92-1).

**CERCLA Reportable quantity:** 

Lead (CAS# 7439-92-1) 10 lbs. (4.54 kg)

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

IDH number: 386832

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

Product name: LOCTITE 370 SN60 5C 1.63MM S known as 60/40 370 5C 1.63MM 0.5KG AM (

Page 5 of 6

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

04/24/2019

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Product name: LOCTITE 370 SN60 5C 1.63MM S known as 60/40 370 5C 1.63MM 0.5KG AM ( Page 6 of 6



Revision Number: 006.1 Issue date: 01/09/2020

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE TTC-LF 32 known as

MM01921 Tinner Cleaner

Product type/use: Restriction of Use: Tip Tinner/Cleaner None identified

Company address: Henkel Corporation

Henkel Corporation
One Henkel Way

Rocky Hill, Connecticut 06067

IDH number:

706397

Item number: Region: MM01921 United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER:

CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE DAMAGE.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

### PICTOGRAM(S)



#### **Precautionary Statements**

Prevention:

Do not breathe dust or fumes. Wash affected area thoroughly after handling. Do not eat, drink

Response:

or smoke when using this product. Wear protective gloves, eye protection, and face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical

attention if you feel unwell. If skin irritation occurs: Get medical attention. Take off contaminated

clothing.

Storage:

Not prescribed

Disposal:

IDH number: 706397

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Product name: LOCTITE TTC-LF 32 known as MM01921 Tinner Cleaner

Page 1 of 6

Hazardous Component(s)	CAS Number	Percentage*	
Tin	7440-31-5	30 - 60	
Monoammonium phosphate	7722-76-1	30 - 60	
Carboxylic acid	Proprietary	5 - 10	
Quartz (SiO2), <1% respirable	14808-60-7	1 - 5	
Silver	7440-22-4	1 - 5	
Organic acid	Proprietary	0.1 - 1	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). Get medical attention. Wash clothing

before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical

attention.

Symptoms: See Section 11.

# 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in

pressure-demand or other positive pressure mode.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Oxides of Metals in Section 3, High temperatures may

produce heavy metal dust, fumes or vapors. Thermal decomposition can lead

to release of irritating gases and vapors.

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and

eye/face protection. Scrape up spilled material and place in a closed container for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior

to clean up.

## 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Wear suitable protective clothing, gloves

and eye/face protection. Avoid contact with eyes, skin and clothing. Avoid skin contact with molten resins. Do not wear contact lenses. Wash thoroughly after

handling.

Storage: Store in a cool, dry, well-ventilated area. Store in original container until ready

to use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tin	2 mg/m3 TWA Inhalable fraction.	2 mg/m3 PEL (as Sn)	None	None
Monoammonium phosphate	None	None	None	None
Carboxylic acid	None	None	None	None
Quartz (SiO2), <1% respirable	0.025 mg/m3 TWA Respirable fraction.	0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable.	None	None
Silver	0.1 mg/m3 TWA Dust and fume.	0.01 mg/m3 PEL (as Ag)	None	None
Organic acid	None	None	None	None

Engineering controls: Heat only in areas with appropriate exhaust ventilation. Local exhaust

ventilation is recommended when general ventilation is not sufficient to control

airborne contamination below occupational exposure limits.

Respiratory protection: Where the potential exists for exposure to decomposition products due to

heating or elevated temperatures, wear NIOSH approved respiratory

protection as appropriate.

**Eye/face protection:** Safety goggles or safety glasses with side shields.

Skin protection: Heat and chemical resistant gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste, Solid Color: Gray

Odor: Mild
Odor threshold: Not available.

pH: Not available.
Vapor pressure: Not available.
Boiling point/range: Not available.

Melting point/ range:
Not available.

Not available.

217 °C (422.6 °F)

Specific gravity:
3.5

Vapor density:Not available.Flash point:Does not flash.Flammable/Explosive limits - lower:Not available.

IDH number: 706397 Product name: LOCTITE TTC-LF 32 known as MM01921 Tinner Cleaner Page 3 of 6

Flammable/Explosive limits - upper:

Autoignition temperature:

Flammability Evaporation rate:

Solubility in water: Partition coefficient (n-octanol/water):

VOC content:

Viscosity: Decomposition temperature: Not available.

Not available. Not applicable

Not available.

Insoluble Not available.

< 1 %

Not available.

Not available.

# 10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Hazardous reactions:

Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Oxides of Metals in Section 3. Thermal decomposition can lead to release of

irritating gases and vapors.

Incompatible materials:

Oxidizing agents. Acids and bases. Reacts with alkalis: spontaneous decomposition and

production of heat

Reactivity:

Not available.

Conditions to avoid:

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

### Potential Health Effects/Symptoms

Inhalation: Abrasion of cured material such as by sanding or grinding could release respirable particles of

silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release. Inhalation of processing fumes may be harmful. Excessive exposure to tin fumes or dust may cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused

with flu symptoms) which come on a few hours after large exposures.

Skin contact:

Causes skin irritation. Argyria (a non-toxic, cosmetic blue-gray discoloration of the skin and

mucous membranes that is irreversible).

Eye contact: Causes serious eye damage

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Monoammonium phosphate	None	Irritant, Eyes, Kidney
Carboxylic acid	Oral LD50 (Rat) = 6,730 mg/kg Oral LD50 (Mouse) = 5,040 mg/kg	Allergen, Corrosive, Eyes, Irritant
Quartz (SiO2), <1% respirable	None	Immune system, Lung, Some evidence of carcinogenicity
Silver	Oral LD50 (Rat) = > 5,000 mg/kg Dermal LD50 (Rat) = > 2,000 mg/kg	Allergen, Eyes, Irritant, Respiratory, Skin
Organic acid	None	Corrosive, Irritant, Nervous System

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	
Tin	No	No	No	
Monoammonium phosphate	No	No	No	
Carboxylic acid	No	No	No	
Quartz (SiO2), <1% respirable	Known To Be Human Carcinogen.	Group 1	Yes	
Silver	No	No	No	
Organic acid	No	No	No	

## 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal. Do not

dispose of in an uncontrolled manner.

Hazardous waste number: D011. Silver.

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

# U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division: Identification number:

None None

Packing group:

IDH number: 706397

None

#### International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division: Identification number:

None None

Packing group:

None

#### Water Transportation (IMO/IMDG)

Proper shipping name:

Not regulated

Hazard class or division:

None None

Identification number:

# Packing group:

None

# 15. REGULATORY INFORMATION

#### United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis

CERCLA/SARA Section 311/312:

Immediate Health, Delayed Health

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Monoammonium phosphate (CAS# 7722-76-1). Silver (CAS# 7440-22-4).

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer.

### Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

#### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

IDH number: 706397

01/09/2020

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Revision Number: 006.2 Issue date: 07/13/2018

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE MFR 301 known as MFR301

IDH number:

760089

Product type:

Flux Pen Liquid Flux

Item number:

M00603

Restriction of Use:

None identified

Region:

**United States** 

Company address:

Henkel Corporation

Rocky Hill, Connecticut 06067

Contact information: Telephone: +1 (860) 571-5100

One Henkel Way

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW**

DANGER:

ASPIRATION HAZARD IF SWALLOWED. HIGHLY FLAMMABLE LIQUID AND VAPOR.

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
ASPIRATION HAZARD	1

PICTOGRAM(S)



### **Precautionary Statements**

Prevention:

Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation wear respiratory protection.

> Product name: LOCTITE MFR 301 known as MFR301 Flux Pen Page 1 of 7

Response:

IF SWALLOWED: Immediately call a physician or poison control center. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If

experiencing respiratory symptoms: Call a poison center or physician. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
2-Propanol	67-63-0	80 - 90	
Hydrocarbon aliphatic aromatic naphthenic C9-12	64742-88-7	10 - 20	
Glutaric acid	110-94-1	1 - 5	
Colophony	8050-09-7	1 - 5	
Adipic acid	124-04-9	1 - 5	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical

attention.

Symptoms: See Section 11.

Notes to physician: Aspiration may cause pulmonary edema or aspiration pneumonia.

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

IDH number: 760089

Unusual fire or explosion hazards: Vapors may form explosive mixtures with air.

Hazardous combustion products: Oxides of carbon. Thermal decomposition can lead to release of irritating

gases and vapors.

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ventilate area. Remove all sources of ignition. Evacuate personnel to safe

areas. Wear suitable protective clothing, gloves and eye/face protection. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal. Spilled liquid is combustible and can be ignited by heat, flames, sparks, or other sources of ignition. Refer to Section 8 "Exposure Controls / Personal"

Protection" prior to clean up.

# 7. HANDLING AND STORAGE

Handling: Keep away from heat, spark and flame. Use only with adequate ventilation.

Wear suitable protective clothing, gloves and eye/face protection. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if

they were full.

Storage: For safe storage, store between 15 °C (59°F) and 30 °C (86°F)

Store away from ignition sources. Keep away from heat, spark and flame.

Store in original container until ready to use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

Product name: LOCTITE MFR 301 known as MFR301 Flux Pen

Page 3 of 7

IDH number: 760089

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m3) PEL	None	None
Hydrocarbon aliphatic aromatic naphthenic C9-12	100 ppm TWA 200 mg/m3 TWA (as total hydrocarbon vapor) Non-aerosol. (SKIN) (as total hydrocarbon vapor) Non-aerosol.	500 ppm (2,900 mg/m3) TWA 100 ppm (400 mg/m3) PEL	None	None
Glutaric acid	None	None	None	None
Colophony	Exposure by all routes should be carefully controlled to levels as low as possible.  Included in the regulation but with no data values. See regulation for further details (Respiratory sensitization)  (Dermal sensitization)	None	None	None
Adipic acid	5 mg/m3 TWA	None	None	None

Engineering controls: Use only with adequate ventilation. Provide adequate local exhaust ventilation

to maintain worker exposure below exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

**Eye/face protection:** Safety goggles or safety glasses with side shields.

**Skin protection:** Chemical resistant, impermeable gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Pale yellow Odor: Alcoholic Odor threshold: Not available.

pH: Not determined

Vapor pressure: 6.6 kPa (25 °C (77°F))

Boiling point/range: 82 °C (179.6 °F)

Melting point/ range: Not determined

Melting point/ range: Not do Specific gravity: 0.801

Vapor density:Heavier than air.Flash point:14 °C (57.2 °F)Flammable/Explosive limits - lower:Not available.Flammable/Explosive limits - upper:Not available.Autoignition temperature:Not available.

Flammability: Not applicable Evaporation rate: 2.93 (Butyl acetate = 1)

Solubility in water:

Partition coefficient (n-octanol/water):

2.93 (Butyl acetate = Soluble Not determined

VOC content:
93 %; 744 g/l
Viscosity:
1.0 mPa.s
Decomposition temperature:
Not determined
93 %; 744 g/l
1.0 x available.

# 10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Electrostatic charge may build-up during handling. Grounding of equipment is recommended.

Hazardous reactions:

Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Irritating fumes. Formaldehyde.

Incompatible materials:

Incompatible with oxidising agents. Dissolves aluminium and zinc slowly with formation of

hydrogen.

Reactivity:

Not available.

Conditions to avoid:

Keep away from open flames, hot surfaces and sources of ignition.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

Inhalation:

Inhalation of processing fumes may be harmful. May cause allergic respiratory reaction. Vapor

overexposure may cause drowsiness. Dizziness. Aspiration may cause lung damage. Causes skin irritation. May cause allergic skin reaction.

Skin contact: Eye contact:

Causes serious eye irritation.

Ingestion:

This product may be fatal if it is swallowed. Aspiration may occur during swallowing or vomiting,

resulting in lung damage.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
2-Propanol	Oral LD50 (Rat) = 5,045 mg/kg Oral LD50 (Mouse) = 3,600 mg/kg Oral LD50 (Rabbit) = 6,410 mg/kg Oral LD50 (Rat) = 4.7 g/kg Oral LD50 (Mouse) = 4.5 g/kg Oral LD50 (Rabbit) = 8.0 g/kg Oral LD50 (Rabbit) = 5.03 g/kg Dermal LD50 (Rabbit) = 12,800 mg/kg	Allergen, Central nervous system, Irritant	
Hydrocarbon aliphatic aromatic naphthenic C9-12	None	Central nervous system, Irritant	
Glutaric acid	None	Irritant, Nervous System	
Colophony	None	Allergen, Irritant, Respiratory	
Adipic acid	Oral LD50 (Mouse) = 1,900 mg/kg Oral LD50 (Rabbit) = > 11,000 mg/kg Oral LD50 (Rat) = > 11,000 mg/kg	Irritant, Kidney, Liver, Nervous System, Respiratory	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
2-Propanol	No	No	No
Hydrocarbon aliphatic aromatic naphthenic C9-12	No	No	No
Glutaric acid	No	No	No
Colophony	No	No	No
Adipic acid	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

Product name: LOCTITE MFR 301 known as MFR301 Flux Pen Page 5 of 7

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:

D001: Ignitable.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Flammable liquids, n.o.s. (Isopropanol, Naphtha)

Hazard class or division:

Identification number:

UN 1993

Packing group:

11

International Air Transportation (ICAO/IATA)

Proper shipping name:

Flammable liquid, n.o.s. (Isopropanol, Naphtha)

Hazard class or division:

Identification number:

UN 1993

Packing group:

11

Water Transportation (IMO/IMDG)

Proper shipping name:

FLAMMABLE LIQUID, N.O.S. (Isopropanol, Naphtha)

Hazard class or division:

UN 1993

Identification number:

Packing group:

11

## 15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis.

CERCLA/SARA Section 311/312: **CERCLA/SARA Section 313:** 

Immediate Health, Delayed Health, Fire None above reporting de minimis.

California Proposition 65:

This product contains a chemical known to the State of California to cause birth defects or

other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

Issue date:

07/13/2018

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Revision Number: 003.0 Issue date: 05/30/2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

LOCTITE MP 200 RWF 27U known as

Tacky Flux MP200

Product type/use: Restriction of Use:

Rework flux None identified

Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

Company address:

IDH number: 519430

Item number: M00449 Region: United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER:

COMBUSTIBLE LIQUID. CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

HAZARD CLASS	HAZARD CATEGORY	
FLAMMABLE LIQUID	4	
SKIN IRRITATION	2	
EYE IRRITATION	2A	
RESPIRATORY SENSITIZATION	1	
SKIN SENSITIZATION	1	

### PICTOGRAM(S)



## **Precautionary Statements**

Prevention:

Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face

protection. In case of inadequate ventilation wear respiratory protection.

Response:

IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to

extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

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Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Colophony	8050-09-7	5 - 10	
Amine salt	Proprietary	0.1 - 1	
Substituted Amine	Proprietary	0.1 - 1	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections

## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical

attention.

**Ingestion:** Do not induce vomiting. Get medical attention.

Symptoms: See Section 11.

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## 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: In case of fire, keep containers cool with water spray.

Hazardous combustion products: Oxides of carbon. Formaldehyde. The flux medium will give rise to irritating

fumes.

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and

eye/face protection. Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls /

Personal Protection" prior to clean up.

# 7. HANDLING AND STORAGE

Handling: Use only in area provided with appropriate exhaust ventilation. Wear suitable

protective clothing, gloves and eye/face protection. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after

handling.

Storage: Keep in a cool, well ventilated area. Store away from heat, sparks, flames, or

other sources of ignition. Keep container closed.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Colophony	Exposure by all routes should be carefully controlled to levels as low as possible. Included in the regulation but with no data values. See regulation for further details (Respiratory sensitization) (Dermal sensitization)	None	None	None
Amine salt	None	None	None	None
Substituted Amine	None	None	None	None

Engineering controls: Use only with adequate ventilation. Provide adequate local exhaust ventilation

to maintain worker exposure below exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Safety showers and eye

wash stations should be available.

Skin protection: Chemical resistant, impermeable gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Not determined

Physical state: Paste, Liquid
Color: Light brown

Odor: Pine

Odor threshold:

pH:

Not available.

Not determined

Vapor pressure:

Not determined

**Boiling point/range:** 210 - 256 °C (410°F - 492.8 °F)

Melting point/ range: Not determined Specific gravity: 0.815

Vapor density: Heavier than air. Flash point: 93 °C (199.4 °F) Not available. Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Not available. 202 °C (395.6 °F) Autoignition temperature: Flammability Not applicable Not available. Evaporation rate: Insoluble Solubility in water:

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Partition coefficient (n-octanol/water):

VOC content:

Viscosity: Decomposition temperature:

50 %; 408 g/l Not available. Not available.

# 10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Hazardous reactions:

Will not occur.

Hazardous decomposition products:

Oxides of carbon. Formaldehyde. Thermal decomposition can lead to release of irritating

gases and vapors.

Incompatible materials:

Incompatible with oxidising agents.

Reactivity:

Not available.

Conditions to avoid:

Keep away from open flames, hot surfaces and sources of ignition. Store away from

incompatible materials.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

### Potential Health Effects/Symptoms

Inhalation:

Inhalation of dust generated by this material may cause respiratory tract irritation. May cause allergic respiratory reaction. Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is

classified by NIOSH as a potential occupational carcinogen. Causes skin irritation. May cause allergic skin reaction.

Skin contact:

Causes serious eye irritation.

Eye contact: Ingestion:

May cause gastrointestinal disturbances.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Colophony	None	Allergen, Irritant, Respiratory
Amine salt	None	Kidney
Substituted Amine	Oral LD50 (Rat) = 3,000 mg/kg	Irritant, Allergen

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Colophony	No	No	No
Amine salt	No	No	No
Substituted Amine	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

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# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

#### U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group:

None None

### International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group: None None

#### Water Transportation (IMO/IMDG)

Proper shipping name:

Not regulated

Hazard class or division: Identification number: None None

Packing group:

None

# 15. REGULATORY INFORMATION

### United States Regulatory Information

TSCA 8 (b) Inventory Status: One or more components of this product are not listed on the U.S. Toxic Substances

Control Act (TSCA) inventory. As such, this product may only be used for research and development purposes as described in 40 CFR 720.36. Research and development products must be used by, or directly under the supervision of, a technically qualified individual. Exercise due care. This product may not be used, processed or distributed for

a commercial purpose in the U.S.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis.

CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:

Immediate Health, Delayed Health None above reporting de minimis.

California Proposition 65:

No California Proposition 65 listed chemicals are known to be present.

## Canada Regulatory Information

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Product Safety and Regulatory Affairs

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