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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Copper Hi-Temp Gasket Sealant Spray
Product type: Sealant
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 30535 / IDH No. 234922
Region: United States
Contact Information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Ethyl acetate 141-78-6	30-60	400 ppm TWA	1400 mg/m ³ TWA 400 ppm TWA	None
Methylene chloride 75-09-2	10-30	50 ppm TWA	12.5 ppm Action Level See 29 CFR 1910.1052 125 ppm STEL 15 min 25 ppm TWA 8 hr 800 ppm TWA	None
Butane 106-97-8	10-30	1000 ppm TWA	1000 ppm TWA 1800 mg/m ³ TWA	None
Propane 74-98-6	10-30	1000 ppm TWA	1000 ppm TWA 1800 mg/m ³ TWA	None
Light aliphatic solvent naphtha 64742-89-8	5-10	None	None	None
Copper 7440-50-8	1-5	0.2 mg/m ³ TWA 1 mg/m ³ TWA	0.1 mg/m ³ TWA fume 1 mg/m ³ TWA dusts and mists	None
Acetone 67-64-1	1-5	500 ppm TWA 750 ppm STEL	1000 ppm TWA 2400 mg/m ³ TWA	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Aerosol
Color: Copper
Odor: Solvent

HMIS:

HEALTH: 3*
FLAMMABILITY: 4
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

DANGER: EXTREMELY FLAMMABLE.
 CONTENTS UNDER PRESSURE.
 POSSIBLE CANCER HAZARD.
 CAUSES EYE AND SKIN IRRITATION.
 HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.

Relevant routes of exposure: Inhalation, Skin contact, Eye contact, Ingestion

Potential Health Effects

Inhalation: Moderate respiratory tract irritation. Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.
Skin contact: Harmful if absorbed through skin. May cause severe irritation due to defatting of skin.
Eye contact: Moderate eye irritation. Stinging. Tearing. Redness. Swelling.
Ingestion: Harmful if swallowed. Ingestion causes irritation and effects similar to inhalation. Aspirated material can enter lungs and cause damage.

Existing conditions aggravated by exposure:

Eye, skin, and respiratory disorders. Liver disorders. Kidney disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

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

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

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 immediately.

5. FIRE-FIGHTING MEASURES

Flash point: Propellant: -104 °C (-156 °F)

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special fire fighting procedures: Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual fire or explosion hazards: Contents under pressure. Do not store or use near heat, spark, open flame or other sources of ignition. Exposure to temperatures above 49°C (120°F) may cause container to burst. Do not puncture or incinerate pressurized containers.

Hazardous combustion products: Oxides of carbon. Hydrocarbons. Hydrogen chloride. Chlorine. Phosgene.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Keep unnecessary personnel away. Remove all ignition sources. Ventilate area. Store in a closed container until ready for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Keep away from heat, spark and flame.

Storage: Do not store above 49°C (120°F). Store away from ignition sources.

Incompatible products: Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.

Respiratory protection: Use a NIOSH approved supplied air respirator if the potential to exceed established exposure limits exists.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

Eye/face protection: Chemical splash goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Aerosol
Color: Copper
Odor: Solvent
Vapor pressure: 44-48 psig
pH: Not applicable
Boiling point/range: Greater than 38°C (100°F)
Melting point/range: Not available
Specific gravity: 0.93 g/ml (concentrate)
Vapor density: Not available
Evaporation rate: Greater than butyl acetate.
Solubility in water: Insoluble.
Partition coefficient (n-octanol/water): Not available
VOC content: (EPA Method 24) 59.54%

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of carbon. Hydrogen chloride gas. Chlorine. Phosgene.

Incompatibility: Strong oxidizers. Strong alkalis. Reactive metals.

Conditions to avoid: Do not puncture container.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Ethyl acetate 141-78-6	No	No	No
Methylene chloride 75-09-2	Suspect Carcinogen	Group 2B	Yes
Butane 106-97-8	No	No	No
Propane 74-98-6	No	No	No
Light aliphatic solvent naphtha 64742-89-8	No	No	No
Copper 7440-50-8	No	No	No
Acetone 67-64-1	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Ethyl acetate 141-78-6	Blood, Central nervous system, Irritant
Methylene chloride 75-09-2	Central nervous system, Irritant, Kidney, Liver, Some evidence of carcinogenicity, Corrosive, Blood, Cardiac
Butane 106-97-8	Cardiac, Central nervous system, Irritant
Propane 74-98-6	Cardiac, Central nervous system, Irritant
Light aliphatic solvent naphtha 64742-89-8	Irritant
Copper 7440-50-8	Skin, Sensory, Mutagen, Liver, Kidney, Irritant, Immune system, Gastrointestinal, Central nervous system, Blood, Allergen, Developmental
Acetone 67-64-1	Blood, Central nervous system, Irritant, Reproductive

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

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

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Exceptions: Consumer Commodity ORM-D

International Air Transportation (ICAO/IATA):

Proper shipping name: Aerosols, flammable, containing substances in Division 6.1, Packing Group III
Hazard class or division: 2.1 (6.1)
Identification number: UN1950
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Aerosols
Hazard class or division: 2 (6.1)
Identification number: UN1950
Packing group: None
Marine pollutant: 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.
CERCLA/SARA Section 302 EHS:	None.
CERCLA/SARA Section 311/312:	Fire, Immediate Health Hazard, Delayed Health Hazard, Sudden Release
CERCLA/SARA 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). Methylene chloride (CAS# 75-09-2). Copper (CAS# 7440-50-8).
California Proposition 65:	This product contains a chemical known to 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 Domestic Substances List.
WHMIS hazard class:	A, B.5, D.1.B, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 14

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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