

Safety Data Sheet



Hazardous Substance, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Liquid Nails Heavy Duty**

Synonyms:

Liquid Nails Heavy Duty, 350g
Liquid Nails Heavy Duty, 350g Export
Liquid Nails Heavy Duty, 350g Triple Pk
Liquid Nails Heavy Duty, 375mL NZ

Product Code

930069712461601
100188
100173
941430211117201

Bar Code

9300697124616
9300697124616
9300697124852
9414302111172

Recommended use: Multipurpose construction adhesive.

Supplier: Selleys, a division of
DuluxGroup (Australia) Pty Ltd
ABN: 67 000 049 427
Street Address: 1956 Dandenong Road
Clayton VIC 3168
Australia
1300 555 205

Emergency telephone number: Australia – 1800 033 111 New Zealand – 0800 734 607

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



Signal Word

Danger

Hazard Classification

Flammable Liquids – Category 2
Serious Eye Damage/Irritation – Category 2A
Specific Target Organ Toxicity (Single Exposure) – Category 3

Hazard Statement(s)

H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

Prevention Precautionary Statement(s)

P102 Keep out of reach of children
P103 Read label before use
P210 Keep away from all sources of ignition - No smoking
P233 Keep container tightly closed
P240 Ground/bond container and receiving equipment
P241 Use explosion-proof electrical, ventilating, lighting and all other equipment
P242 Use only non-sparking tools
P243 Take precautionary measures against static discharge
P261 Avoid breathing vapours

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- P264 Wash hands, face and all exposed skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P273 Avoid release to the environment
P281 Use personal protective equipment as required

Response Precautionary Statement(s)

- P101 If medical advice is needed, have product container or label at hand
P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 Call a POISON CENTRE or doctor/physician if you feel unwell
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P332+313 If skin irritation occurs: Get medical advice/attention
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P337+313 If eye irritation persists get medical advice/attention
P370+378 In case of fire: Use alcohol resistant foam for extinction

Storage Precautionary Statement(s)

- P405 Store locked up
P403+235 Store in a well ventilated place. Keep cool

Disposal Precautionary Statement(s)

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations

Poisons Schedule (Aust): Not applicable

DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Class: 3 Flammable Liquid

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Methyl acetate	79-20-9	10 - 30%
Acetone	67-64-1	1 - 10%
Naphtha (petroleum), hydrotreated light	64742-49-0	1 - 10%
Heptane	142-82-5	1 - 10%
Ingredients determined to be non-hazardous	-	Balance
		<hr/> 100%

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4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Skin contact: For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

PPE for First Aiders: Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Hazchem Code: •3Y

Suitable extinguishing media: Alcohol resistant foam is the preferred fire-fighting medium. If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Fire fighting further advice: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes, including oxides of carbon and nitrogen. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

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6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel. If contamination of sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: 14

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of vapour.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Methyl acetate	200	606	250	757	-	-
Acetone	500	1,185	1,000	2,375	-	-
Heptane	400	1,640	500	2,050	-	-

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

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If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Personal protection equipment: YELLOW: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.

MANUFACTURING, PACKAGING AND TRANSPORT:

Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

RECOMMENDATIONS FOR CONSUMER USE:

Wear gloves. Avoid inhaling vapour. Wash hands after use.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Brown paste with a solvent odour.

Solubility:	Soluble in organic solvents. Insoluble in water.
Specific Gravity (20 °C):	1.18 – 1.20
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	-9 (Solvent)
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
% Volatile by Volume:	32
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	N Av
Decomposition Point (°C):	N Av
pH:	N Av
Viscosity (Flow time):	>100 seconds (6mm jet)
Total VOC (g/Litre):	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

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10. STABILITY AND REACTIVITY

Reactivity: No reactivity hazards are known for the material.

Chemical stability: This material is thermally stable when stored and used as directed.

Hazardous reactions: No known hazardous reactions.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Incompatible with oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications.

Eye contact: An eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous.

Skin contact: This material has been classified as non-hazardous.

Ingestion: This material has been classified as non-hazardous.

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes).

Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser.

Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.

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Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as a Category Acute 2 Hazard.
Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

Long-term aquatic hazard: This material has been classified as a Category Chronic 2 Hazard.
Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

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14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

UN No: 1133
Dangerous Goods Class: 3 Flammable Liquid
Packing Group: III
Hazchem Code: •3Y
Emergency Response Guide No: 14

Proper Shipping Name: ADHESIVES

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No: 1133
Dangerous Goods Class: 3 Flammable Liquid
Packing Group: III
Hazchem Code: •3Y

Proper Shipping Name: ADHESIVES

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 1133
Dangerous Goods Class: 3 Flammable Liquid
Packing Group: III
Hazchem Code: •3Y

Proper Shipping Name: ADHESIVES

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15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives
- International Convention for the Prevention of Pollution from Ships (MARPOL)
- Annex III - Harmful Substances carried in Packaged Form

This material/constituent(s) is covered by the following requirements:

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)*.

16. OTHER INFORMATION

Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Reason(s) For Issue: Format Change

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DuluxGroup (Australia) Pty Ltd and DuluxGroup (New Zealand) Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.



Revision Number: 005.1

Issue date: 03/08/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE LB 8008 C5-A known as C5-A® Copper Based Anti-Seize	IDH number:	234263
Product type:	Lubricant	Item number:	51147
Restriction of Use:	None identified	Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: (860) 571-5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	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.
MAY CAUSE AN ALLERGIC SKIN REACTION.
CAUSES SERIOUS EYE DAMAGE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

Prevention:	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.
Response:	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. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.
Storage:	Not prescribed
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*
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Calcium dihydroxide	1305-62-0	10 - 20
Disillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 20
Petroleum distillates, hydrotreated, light naphthenic	64742-53-6	10 - 20
Copper	7440-50-8	10 - 20
Graphite	7782-42-5	5 - 10
Quartz (SiO ₂)	14808-60-7	0.1 - 1

* 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:	Wash with soap and water. If symptoms develop and persist, get medical attention.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	Do not induce vomiting. 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:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Oxides of carbon.

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 material to contaminate ground water system.
Clean-up methods:	Scrape up as much material as possible. Clean residue with soap and water.

7. HANDLING AND STORAGE

Handling:	Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep container closed. Wash thoroughly after handling.
Storage:	Keep in a cool, 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
Calcium dihydroxide	5 mg/m3 TWA	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA Inhalable fraction. 5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist 500 ppm (2,000 mg/m3) PEL 5 mg/m3 PEL Mist.	None	None
Petroleum distillates, hydrotreated, light naphthenic	5 mg/m3 TWA Inhalable fraction.	5 mg/m3 PEL Mist. 500 ppm (2,000 mg/m3) PEL	None	None
Copper	0.2 mg/m3 TWA (as Cu) Fume. 1 mg/m3 TWA (as Cu) Dust and mist.	1 mg/m3 PEL (as Cu) Dust and mist. 0.1 mg/m3 PEL (as Cu) Fume.	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 15 MPPCF TWA 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust.	None	None
Quartz (SiO ₂)	0.025 mg/m3 TWA Respirable fraction.		None	None

Engineering controls:

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respirator use (29 CFR 1910.134).

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.

Skin protection:

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Paste

Color:

Copper

Odor:

Mild

Odor threshold:

Not available.

pH:

Not applicable

Vapor pressure:

< 5.0 mm hg

Boiling point/range:

> 260 °C (> 500 °F)

Melting point/ range:

Not available.

Specific gravity:

1.30

Vapor density:

Heavier than air.

Flash point:

> 93 °C (> 199.4 °F)

Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not determined
Flammability:	Not applicable
Evaporation rate:	Slower than ether.
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
VOC content:	< 3 % Estimated
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Hydrocarbons. Oxides of carbon.
Incompatible materials:	Strong acids and strong bases, Oxidizing agents.
Reactivity:	Not available.
Conditions to avoid:	Prolonged exposure to heat.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation: Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste, discoloration of skin or hair. May cause respiratory tract irritation. Contains crystalline silica (quartz), which is classified as a possible carcinogen. However, the crystalline silica present in this product is encapsulated in the liquid and will only be liberated if the product is sanded or abraded, and even then what is liberated will not be pure crystalline silica. Appropriate precautions, however, should be taken if the product is sanded or abraded to prevent personnel from breathing the dust.

Skin contact: Causes skin irritation. May cause allergic skin reaction.

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
Calcium dihydroxide	Oral LD50 (Rat) = 7,340 mg/kg	Irritant, Corrosive
Distillates (petroleum), hydrotreated heavy naphthenic	None	Irritant
Petroleum distillates, hydrotreated, light naphthenic	None	Irritant
Copper	None	Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin
Graphite	None	Lung
Quartz (SiO ₂)	None	Immune system, Lung, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Calcium dihydroxide	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No
Petroleum distillates, hydrotreated, light naphthenic	No	No	No
Copper	No	No	No
Graphite	No	No	No
Quartz (SiO ₂)	Known To Be Human Carcinogen.	Group 1	Yes

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.

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: Environmentally hazardous substance, liquid, n.o.s. (Copper)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
Marine pollutant: Copper
DOT Hazardous Substance(s): Copper

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
Marine pollutant: Copper

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). Copper (CAS# 7440-50-8).
CERCLA Reportable quantity: Copper (CAS# 7440-50-8) 5,000 lbs. (2,270 kg)
California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL 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: Timothy Pratt, Regulatory Affairs Specialist

Issue date: 03/08/2017

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Common Name: LOCTITE 5113 THREAD SEALANT KNOWN AS LOCTITE THREAD SEALANT WITH P, 1527514

Manufacturer: HENKEL

SDS Revision Date: 8/4/2017

SDS Format: GHS-US

Item Number(s): 16NH11

Manufacturer Model Number(s):

SDS Table of Contents

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HENKEL

SAFETY DATA SHEET

REVISION NUMBER: 006.0

ISSUE DATE: 08/04/2017

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME:

LOCTITE 5113 THREAD SEALANT KNOWN AS LOCTITE (R*) THREAD SEALANT WITH P

PRODUCT TYPE: SEALANT

RESTRICTION OF USE: NONE IDENTIFIED

IDH NUMBER: 1527514

ITEM NUMBER: 1527514

REGION: UNITED STATES

COMPANY ADDRESS:
HENKEL CORPORATION
ONE HENKEL WAY
ROCKY HILL, CONNECTICUT 06067

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:

WARNING:
FLAMMABLE LIQUID AND VAPOR.
CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE RESPIRATORY IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	3
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S):
FLAME
EXCLAMATION MARK

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. WEAR PROTECTIVE GLOVES, EYE PROTECTION, AND FACE PROTECTION.

RESPONSE:
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.

IF EYE IRRITATION PERSISTS: GET MEDICAL ATTENTION.

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

 top

HAZARDOUS COMPONENT(S)	CAS NUMBER	PERCENTAGE*
2-PROPANOL	67-63-0	30 - 40
TALC	14807-96-6	20 - 30
TITANIUM DIOXIDE	13463-67-7	1 - 5
ETHENE, TETRAFLUORO-, HOMOPOLYMER	9002-84-0	1 - 5
QUARTZ (SiO2)	14808-60-7	0.1 - 1

* EXACT PERCENTAGES MAY VARY OR ARE TRADE SECRET. CONCENTRATION RANGE IS PROVIDED TO ASSIST USERS IN PROVIDING APPROPRIATE PROTECTIONS.

4. FIRST AID MEASURES

 top

INHALATION:

MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

SKIN CONTACT:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER (USING SOAP, IF AVAILABLE). REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION.

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.

5. FIRE FIGHTING MEASURES

 top

EXTINGUISHING MEDIA:

WATER SPRAY (FOG), FOAM, DRY CHEMICAL OR CARBON DIOXIDE. DO NOT USE HIGH VOLUME WATER JET.

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. TOXIC FLUORIDES. ACRID SMOKE AND 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:
REMOVE ALL SOURCES OF IGNITION. EVACUATE AND VENTILATE SPILL AREA; DIKE SPILL TO PREVENT ENTRY INTO WATER SYSTEM; WEAR FULL PROTECTIVE EQUIPMENT DURING CLEANUP. SOAK UP WITH INERT ABSORBENT MATERIAL (E.G. SAND, SILICA GEL, ACID BINDER, UNIVERSAL BINDER, SAWDUST). 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 WITH ADEQUATE VENTILATION. PREVENT CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT BREATHE VAPOR AND MIST. WASH THOROUGHLY AFTER HANDLING.
REFER TO SECTION 8.

STORAGE:
KEEP IN A COOL, WELL VENTILATED AREA AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP CONTAINER TIGHTLY CLOSED UNTIL READY FOR USE.

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
TALC	2 MG/M3 TWA RESPIRABLE FRACTION.	0.1 MG/M3 TWA RESPIRABLE. 2.4 MPPCF TWA RESPIRABLE. 20 MPPCF TWA	NONE	50 PPM
TITANIUM DIOXIDE	10 MG/M3 TWA	15 MG/M3 PEL TOTAL DUST. 15 MPPCF	NONE	NONE

TWA
 RESPIRABLE
 FRACTION.
 15 MG/M3
 TWA TOTAL
 DUST.
 50 MPPCF
 TWA
 TOTAL DUST.
 5 MG/M3 TWA
 RESPIRABLE
 FRACTION.

ETHENE, TETRAFLUORO-, HOMOPOLYMER	NONE	NONE	NONE	10 MG/M3 TWA TOTAL DUST. 5 MG/M3 TWA RESPIRABLE FRACTION.
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QUARTZ (SiO2)	0.025 MG/M3 TWA RESPIRABLE FRACTION.	2.4 MPPCF TWA RESPIRABLE. 0.1 MG/M3 TWA RESPIRABLE. 0.05 MG/M3 TWA (RESPIRABLE DUST.) (RESPIRABLE DUST.) 0.025 MG/M3 OSHA ACT (RESPIRABLE DUST.) 0.05 MG/M3 PEL RESPIRABLE DUST.	NONE	NONE
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ENGINEERING CONTROLS:
 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: PASTE

COLOR: WHITE

ODOR: ALCOHOLIC

ODOR THRESHOLD: NOT AVAILABLE.

PH: NOT APPLICABLE

VAPOR PRESSURE: 33 MM Hg (20 DEG. C (68 DEG. F))

BOILING POINT/RANGE: 82 DEG. C (179.6 F)

MELTING POINT/RANGE: NOT DETERMINED

SPECIFIC GRAVITY: 1.12 AT 25 DEG. C (77 DEG. F)

VAPOR DENSITY: 2.07

FLASH POINT: 23 C (73.4 DEG. F) TAGLIABUE CLOSED CUP

FLAMMABLE/EXPLOSIVE LIMITS - LOWER: 2.3%

FLAMMABLE/EXPLOSIVE LIMITS - UPPER: 12.7%

AUTOIGNITION TEMPERATURE: 398.3 DEG. C (748.94 DEG. F) ESTIMATED

FLAMMABILITY: NOT APPLICABLE

EVAPORATION RATE: 7.7 (ETHER = 1)

SOLUBILITY IN WATER: PARTIALLY SOLUBLE

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT DETERMINED

VOC CONTENT: 35.98%; 343.43 G/L

VISCOSITY: NOT AVAILABLE.

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

10. STABILITY AND REACTIVITY



STABILITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND USE.

HAZARDOUS REACTIONS: NONE UNDER NORMAL PROCESSING.

HAZARDOUS DECOMPOSITION PRODUCTS:

TOXIC FLUORIDES. OXIDES OF CARBON. ACRID SMOKE AND FUMES.

INCOMPATIBLE MATERIALS:

OXIDIZING AGENTS. ACIDS. ALDEHYDES. AMINES. ISOCYANATES. HALOGENS. IRON.
CHLORINE. ALKALIS. ALUMINUM.

REACTIVITY: NOT AVAILABLE.

CONDITIONS TO AVOID:

HEAT, FLAMES, SPARKS AND OTHER SOURCES OF IGNITION. STORE AWAY FROM
INCOMPATIBLE MATERIALS. AVOID DUST FORMATION.

11. TOXICOLOGICAL INFORMATION



RELEVANT ROUTES OF EXPOSURE: SKIN, INHALATION, EYES, INGESTION

POTENTIAL HEALTH EFFECTS/SYMPTOMS:

INHALATION:

INHALATION OF VAPORS OR MISTS OF THE PRODUCT MAY BE IRRITATING TO THE
RESPIRATORY SYSTEM. MAY CAUSE DIZZINESS, INCOORDINATION, HEADACHE, NAUSEA,

AND VOMITING. 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.

SKIN CONTACT: MAY CAUSE SKIN IRRITATION.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION.

INGESTION: MAY CAUSE GASTROINTESTINAL TRACT IRRITATION IF SWALLOWED.

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	
TALC	NONE	IRRITANT, LUNG, SOME EVIDENCE OF CARCINOGENICITY	
TITANIUM DIOXIDE	NONE	IRRITANT, RESPIRATORY, SOME EVIDENCE OF CARCINOGENICITY	
ETHENE, TETRAFLUORO-, HOMOPOLYMER	NONE	NO TARGET ORGANS	
QUARTZ (SiO2)	NONE	IMMUNE SYSTEM, LUNG, SOME EVIDENCE OF CARCINOGENICITY	
HAZARDOUS COMPONENT(S)	NTP CARCINOGEN	IARC CARCINOGEN	OSHA CARCINOGEN (SPECIFICALLY REGULATED)
2-PROPANOL	NO	NO	NO
TALC	NO	GROUP 2B	NO
TITANIUM DIOXIDE	NO	GROUP 2B	NO
ETHENE, TETRAFLUORO-, HOMOPOLYMER	NO	NO	NO
QUARTZ (SiO2)	KNOWN TO BE HUMAN CARCINOGEN.	GROUP 1	YES

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS

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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

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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: RESIN SOLUTION

HAZARD CLASS OR DIVISION: 3

IDENTIFICATION NUMBER: UN 1866

PACKING GROUP: III

INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA):

PROPER SHIPPING NAME: RESIN SOLUTION

HAZARD CLASS OR DIVISION: 3

IDENTIFICATION NUMBER: UN 1866

PACKING GROUP: III

EXCEPTIONS:

CONSUMER COMMODITY, ID 8000, CLASS 9, (NOT MORE THAN 500 ML)

WATER TRANSPORTATION (IMO/IMDG):

PROPER SHIPPING NAME: RESIN SOLUTION

HAZARD CLASS OR DIVISION: 3

IDENTIFICATION NUMBER: UN 1866

PACKING GROUP: III

15. REGULATORY INFORMATION

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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:

ETHENE, TETRAFLUORO-, HOMOPOLYMER (CAS# 9002-84-0).

CERCLA/SARA SECTION 302 EHS: NONE ABOVE REPORTING DE MINIMIS.

CERCLA/SARA SECTION 311/312: IMMEDIATE HEALTH, DELAYED HEALTH, FIRE

CERCLA/SARA SECTION 313: NONE ABOVE REPORTING DE MINIMIS.

CERCLA REPORTABLE QUANTITY: 2-PROPANOL (CAS# 67-63-0) 100 LBS. (45.4 KG)

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS A CHEMICAL KNOWN IN THE STATE OF CALIFORNIA TO CAUSE CANCER.

CANADA REGULATORY INFORMATION:

CEPA DSL/NDL 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: 2, 3, 5, 8, 10, 11

PREPARED BY: CARA R. RIVERA, REGULATORY AFFAIRS SPECIALIST

ISSUE DATE: 08/04/2017

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SAFETY DATA SHEET NO. 0

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name NO. 0

Product number L0000-013, L0000-035, L0000-039, L0000-040, L0000-007

Recommended use of the chemical and restrictions on use

Application Petroleum lubricating oil

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Manufacturer Lubriplate Lubricants Co.
Corporate Headquarters
129 Lockwood Street
Newark, NJ 07105

Midwest Office & Plant
1500 Oakdale Ave.
Toledo, OH 43605
419-691-2491
419-693-3806

Emergency telephone number

Emergency telephone Chem-Tel: 1-800-255-3924 (US & Canada only)
01-813-248-0585 (Outside US & Canada) Europe: +49 4262 79 9603

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Carc. 2 - H351 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 3 - H412

Label elements

Hazard symbols



Signal word

Danger

NO. 0**Hazard statements**

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H304 May be fatal if swallowed and enters airways.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing vapor/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P310 If swallowed: Immediately call a poison center/ doctor.
 P302+P352 If on skin: Wash with plenty of water.
 P308+P313 If exposed or concerned: Get medical advice/ attention.
 P321 Specific treatment (see medical advice on this label).
 P331 Do NOT induce vomiting.
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

Kerosine (petroleum), Alkyl amines

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients**Mixtures****Kerosine (petroleum)****10-30%**

CAS number: 8008-20-6

Classification

Flam. Liq. 3 - H226
 Skin Irrit. 2 - H315
 Carc. 2 - H351
 STOT SE 3 - H336
 Asp. Tox. 1 - H304
 Aquatic Acute 2 - H401
 Aquatic Chronic 2 - H411

Alkyl amines**1-5%**

CAS number: —

Classification

Flam. Liq. 4 - H227
 Eye Irrit. 2B - H320
 Skin Sens. 1 - H317
 Aquatic Chronic 2 - H411

NO. 0**naphthalene** <1%

CAS number: 91-20-3

M factor (Acute) = 1

M factor (Chronic) = 1

Classification

Acute Tox. 4 - H302

Carc. 2 - H351

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

toluene <1%

CAS number: 108-88-3

Classification

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

Repr. 2 - H361d

STOT SE 3 - H336

STOT RE 2 - H373

Asp. Tox. 1 - H304

ethylbenzene <1%

CAS number: 100-41-4

Classification

Flam. Liq. 2 - H225

Acute Tox. 4 - H332

STOT RE 2 - H373

Asp. Tox. 1 - H304

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures**Description of first aid measures**

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.
Skin Contact	It is important to remove the substance from the skin immediately. In the event of any sensitization symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognized skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

NO. 0**Most important symptoms and effects, both acute and delayed****General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

Ingestion

May cause sensitization or allergic reactions in sensitive individuals. May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

Skin contact

May cause skin sensitization or allergic reactions in sensitive individuals. Redness. Irritating to skin. Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.

Eye contact

No specific symptoms known. May be slightly irritating to eyes.

Indication of immediate medical attention and special treatment needed**Notes for the doctor**

Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.

NO. 0**5. Fire-fighting measures****Extinguishing media**

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances:
Harmful gases or vapors.

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

NO. 0**7. Handling and storage****Precautions for safe handling****Usage precautions**

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Suspected of causing cancer. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities**Storage precautions**

Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Storage class

Chemical storage.

Specific end uses(s)**Specific end use(s)**

The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection**Control parameters****Occupational exposure limits**

Mineral oil, excluding metal working fluids (pure, highly and severely refined)
Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ inhalable fraction

Kerosine (petroleum)

Long-term exposure limit (8-hour TWA): ACGIH 200 mg/m³
A3, Sk

naphthalene

Long-term exposure limit (8-hour TWA): OSHA 10 ppm 50 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 52 mg/m³
A3, DSens, Sk

toluene

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 75 mg/m³
A4

Long-term exposure limit (8-hour TWA): OSHA 200 ppm
Ceiling exposure limit: OSHA 300 ppm

ethylbenzene

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 87 mg/m³
A3

ACGIH = American Conference of Governmental Industrial Hygienists.
OSHA = Occupational Safety and Health Administration.
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.
A4 = Not Classifiable as a Human Carcinogen.
Sk = Danger of cutaneous absorption.
DSens = Dermal sensitizer.

NO. 0

Immediate danger to life and health 250 ppm

ethylbenzene (CAS: 100-41-4)

Immediate danger to life and health 800 ppm

toluene (CAS: 108-88-3)

Immediate danger to life and health 500 ppm

Exposure controls**Protective equipment****Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

May cause skin sensitization or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Appearance Oily liquid. Transparent.

Color Straw to Yellowish

NO. 0

Odor	Mineral oil
Odor threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	>288°C (>550.4°F)
Flash point	135°C/275°F Cleveland open cup.
Evaporation rate	> 0.01 (butyl acetate = 1)
Evaporation factor	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.9 % Upper flammable/explosive limit: 7 %
Vapor pressure	<0.0013 kPa @ 20°C
Vapor density	> 5
Relative density	0.88
Bulk density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	8.5 cSt @ 40°C/104°F
Explosive properties	Not considered to be explosive.
Oxidizing properties	Does not meet the criteria for classification as oxidizing.

10. Stability and reactivity

Reactivity	See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	Keep away from heat, sparks and open flame. Avoid heat, flames and other sources of ignition.
Materials to avoid	Oxidizing agents. Chlorine.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

11. Toxicological information**Information on toxicological effects**

NO. 0

Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u>	
Notes (Inhalation LC₅₀)	Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Animal data	Irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitization</u>	
Respiratory sensitization	Based on available data the classification criteria are not met.
<u>Skin sensitization</u>	
Skin sensitization	May cause skin sensitization or allergic reactions in sensitive individuals.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Suspected of causing cancer.
IARC carcinogenicity	None of the ingredients are listed or exempt.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
<u>Aspiration hazard</u>	
Aspiration hazard	Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
General Information	May cause cancer after repeated exposure. Risk of cancer depends on duration and level of exposure. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	May cause sensitization or allergic reactions in sensitive individuals. May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin Contact	May cause skin sensitization or allergic reactions in sensitive individuals. Redness. Irritating to skin.
Eye contact	No specific symptoms known.

NO. 0

Target Organs No specific target organs known.

Medical considerations Skin disorders and allergies.

12. Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity Based on available data the classification criteria are not met.

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

NO. 0**13. Disposal considerations****Waste treatment methods****General information**

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. Transport information**General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number**UN No. (International)**

Not applicable.

UN No. (DOT)

Not applicable.

UN proper shipping name**Proper shipping name (International)**

Not applicable.

Proper shipping name (DOT)

Not applicable.

Transport hazard class(es)**Transport Labels (International)**

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group**Packing group (International)**

Not applicable.

DOT packing group

Not applicable.

Environmental hazards**Environmentally Hazardous Substance**

No.

Special precautions for user

Not applicable.

DOT reportable quantity

Not applicable.

DOT TIH Zone

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78

Not applicable.

NO. 0**15. Regulatory information****US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed or exempt:

naphthalene

Final CERCLA RQ: 100(45.4) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

The following ingredients are listed or exempt:

naphthalene

0.1 %

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

FDA - Essential Chemical

None of the Ingredients are listed or exempt.

FDA - Precursor Chemical

None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

US State Regulations**California Proposition 65 Carcinogens and Reproductive Toxins**

The following ingredients are listed or exempt:

naphthalene

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

naphthalene

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

naphthalene

Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

Distillates (petroleum), hydrotreated light naphthenic

Kerosene (petroleum)

NO. 0

naphthalene

Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Kerosine (petroleum)

naphthalene

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

naphthalene

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Kerosine (petroleum)

naphthalene

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Kerosine (petroleum)

naphthalene

Inventories**US - TSCA**

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

16. Other Information**Abbreviations and acronyms used in the safety data sheet**

TDG: The transport of dangerous goods act

IATA: International air transport association.

ICAO: Technical instructions for the safe transport of dangerous goods by air.

IMDG: International maritime dangerous goods.

CAS: Chemical abstracts service.

ATE: Acute toxicity estimate.

LC₅₀: Lethal concentration to 50 % of a test population.

LD₅₀: Lethal dose to 50% of a test population (median lethal dose).

EC₅₀: 50% of maximal effective concentration.

PBT: Persistent, bioaccumulative and toxic substance.

vPvB: Very persistent and very bioaccumulative.

Classification abbreviations and acronyms

Asp. Tox. = Aspiration hazard

Carc. = Carcinogenicity

Skin Irrit. = Skin irritation

Skin Sens. = Skin sensitisation

Training advice

Only trained personnel should use this material.

Revision date

7/18/2019

Revision

1

NO. 0

Supersedes date 8/8/2018

SDS No. 5048

Hazard statements in full

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H227 Combustible liquid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H320 Causes eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H401 Toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

End of SDS



SAFETY DATA SHEET MULTI-VISCOSITY HYDRAULIC OIL

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name MULTI-VISCOSITY HYDRAULIC OIL
Product number L0777-059, L0777-060, L0777-061, L0777-062

Recommended use of the chemical and restrictions on use

Application Petroleum lubricating oil
Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Manufacturer Lubriplate Lubricants Co.
Corporate Headquarters
129 Lockwood Street
Newark, NJ 07105

Midwest Office & Plant
1500 Oakdale Ave.
Toledo, OH 43605
419-691-2491
419-693-3806

Emergency telephone number

Emergency telephone Chem-Tel: 1-800-255-3924 (US & Canada only)
01-813-248-0585 (Outside US & Canada)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

4. First-aid measures

Description of first aid measures

MULTI-VISCOSITY HYDRAULIC OIL

General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.
Skin Contact	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	Use protective equipment appropriate for surrounding materials.

Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known. Spray/mists may cause respiratory tract irritation.
Ingestion	No specific symptoms known. May cause discomfort if swallowed.
Skin contact	No specific symptoms known. May cause discomfort.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
Specific treatments	No special treatment required.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

MULTI-VISCOSITY HYDRAULIC OIL

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions No specific recommendations. For personal protection, see Section 8.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). No specific recommendations.

Storage class Unspecified storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

White mineral oil (petroleum)

Mineral oil, excluding metal working fluids (pure, highly and severely refined)
Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ inhalable fraction
ACGIH = American Conference of Governmental Industrial Hygienists.

Exposure controls

Appropriate engineering controls No specific ventilation requirements.

Eye/face protection No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection No specific hand protection recommended. Large Spillages: Wear protective gloves.

Hygiene measures Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is

MULTI-VISCOSITY HYDRAULIC OIL

Environmental exposure controls Not regarded as dangerous for the environment.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Appearance	Oily liquid. Transparent.
Color	Amber.
Odor	Mineral oil
Odor threshold	Not available.
pH	Not available.
Melting point	Pour Point: -40°C/-40°F
Initial boiling point and range	>288°C (>550.4°F)
Flash point	166°C/330.8°F Cleveland open cup.
Evaporation rate	< 0.01 (butyl acetate = 1)
Evaporation factor	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.9 % Upper flammable/explosive limit: 7 %
Vapor pressure	<0.0013 kPa @ 20°C
Vapor density	> 0.5
Relative density	0.87
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	185°C/365°F
Decomposition Temperature	Not available.
Viscosity	35 cSt @ 40°C/104°F 8 cSt @ 100°C/212°F
Explosive properties	Not considered to be explosive.
Oxidizing properties	Does not meet the criteria for classification as oxidizing.
Other information	None.

10. Stability and reactivity

Reactivity	See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.

MULTI-VISCOSITY HYDRAULIC OIL

Conditions to avoid Keep away from heat, sparks and open flame. Avoid heat, flames and other sources of ignition.

Materials to avoid Oxidizing agents. Chlorine.

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

11. Toxicological Information**Information on toxicological effects**

Toxicological effects Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization

Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

MULTI-VISCOSITY HYDRAULIC OIL

General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known. Spray/mists may cause respiratory tract irritation.
Ingestion	No specific symptoms known. May cause discomfort if swallowed.
Skin Contact	No specific symptoms known. May cause discomfort.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.

12. Ecological Information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Toxicity	Based on available data the classification criteria are not met.
<u>Persistence and degradability</u>	
Persistence and degradability	The degradability of the product is not known.
<u>Bioaccumulative potential</u>	
Bio-Accumulative Potential	No data available on bioaccumulation.
Partition coefficient	Not available.
<u>Mobility in soil</u>	
Mobility	No data available.
<u>Other adverse effects</u>	
Other adverse effects	None known.

13. Disposal considerations

Waste treatment methods

General information	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

14. Transport Information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
<u>UN Number</u>	
UN No. (International)	Not applicable.
UN No. (DOT)	Not applicable.
IM proper shipping name	

MULTI-VISCOSITY HYDRAULIC OIL

Proper shipping name (International) Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

DOT transport labels
No transport warning sign required.

Packing group

Packing group (International) Not applicable.

DOT packing group Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

The following ingredients are listed or exempt:

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

1.0 %

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

FDA - Essential Chemical

None of the ingredients are listed or exempt.

FDA - Precursor Chemical

None of the ingredients are listed or exempt.

MULTI-VISCOSITY HYDRAULIC OIL

SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

None of the ingredients are listed or exempt.

Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List

None of the ingredients are listed or exempt.

Inventories

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

16. Other information

Training advice Only trained personnel should use this material.

Revision date 8/30/2018

SDS No. 5093

End of SDS