

Safety Data Sheet

Die Lubricant

SDS Revision Date:

06/22/2015

1. Identification

1.1. Product identifier

Product Identity Die Lubricant
Alternate Names True Release

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet.
Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name J. Morita USA
9 Mason
Irvine, CA 92618

Emergency

CHEMTREC (USA) (800) 424-9300; +1 703-527-3887
24 hour Emergency Telephone No. (800) 424-9300 +1 703-527-3887
Customer Service: J. Morita USA 1-800-831-3222 (US & Canada)
+1-949-581-9600 (Outside US & Canada)

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Flam. Liq. 2;H225 Highly Flammable liquid and vapor.
Eye Irrit. 2;H319 Causes serious eye irritation.
STOT SE 3;H336 May cause drowsiness or dizziness.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H225 Highly flammable liquid and vapor.

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H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P235 Keep cool.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / light / equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower. (Use warm water and mild soap).
P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
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.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Isopropyl Alcohol CAS Number: 0000067-63-0	50 - 75	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Poly(oxypropylene) triol CAS Number: 0025791-96-2	10 - 25	Not Classified	[1]

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White Mineral oil CAS Number: 0008042-47-5	10 - 25	Asp. Tox. 1;H304	[1]
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In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion

Seek medical attention. If victim is drowsy/unconscious, place on the left side with head down. Do not give anything by mouth. If victim is conscious/alert, give no more than 2 glasses of water and induce vomiting (30 cc or 2 tbsp syrup of ipecac or stick finger in person's throat). Reduce above by half for child. Keep victim's head below hips.

4.2. Most important symptoms and effects, both acute and delayed

Overview

INHALATION/INGESTION: Vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, irritation of nose, throat, lungs. Irritation of digestive tract - cramps, vomiting, diarrhea. Nervous system depression (fatigue, drowsiness, dizziness)
SKIN/EYES: Burning, tearing, redness and swelling of eyes, transient corneal injury, drying and cracking of skin. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Inhalation

May cause drowsiness or dizziness.

Eyes

Causes serious eye irritation.

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5. Fire-fighting measures

5.1. Extinguishing media

Use alcohol foam, CO₂, Dry Chemical, or Water Spray.

5.2. Special hazards arising from the substance or mixture

Vapors can travel to a source of ignition and flash back. Material can form explosive vapors with air.

Hazardous decomposition: Combustion will produce CO₂ and possibly CO.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep cool.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray to cool containers.

None

ERG Guide No. 128

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Vapors can travel to a source of ignition and flash back. Material can form explosive vapors with air.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways. Wipe up small spills with paper towel, and dispose in ventilated can,

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Vapors can travel to a source of ignition and flash back. Material can form explosive vapors with air.

Spill Clean Up: Eliminate all ignition sources. Evacuate personnel to safe areas. Ventilate the area. Floor may be slippery, use caution. Soak up with inert absorbent material (Paper towel, sand, silica gel, sawdust). Avoid breathing vapor. Wear MSHA/NIOSH approved respirator. Will make serious slipping/falling hazard. Use course sand over spill area. Wear latex or vinyl gloves.

Note: Spills on porous surfaces can contaminate ground water. Let liquid in absorbent material evaporate away from flame, in non-porous open container, before disposal.

CONTAMINATED PACKAGING: Empty containers should be taken for local recycling or waste disposal.

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7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Limit storage of flammable material to approved areas. Keep properly ventilated. Ground all containers when transferring material. Store bottles away from heat. Keep away from open flame of bunsen burner or furnace. Keep containers tightly sealed. Periodically clean neck of bottle of oily build up (clean inside of cap) to maintain proper seal. Do not smoke when using. Avoid storing near Concentrated Nitric & Sulfuric acids, strong oxidizers, alkalis, halogen compounds. Limit storage of flammable material to approved areas. Keep properly ventilated. Ground all containers when transferring material. Store bottles away from heat. Keep away from open flame of bunsen burner or furnace.

Storage Temp: 60C/140F max.

Incompatible materials: Concentrated Nitric & Sulfuric acids, strong oxidizers, alkalis, halogen compounds.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000067-63-0	Isopropyl Alcohol	OSHA	TWA 400 ppm (980 mg/m3) STEL 500 ppm
		ACGIH	TWA: 200 ppm STEL: 400 ppm Revised 2003,
		NIOSH	TWA 400 ppm (980 mg/m3) ST 500 ppm (1225 mg/m3)
		Supplier	No Established Limit
0008042-47-5	White Mineral oil	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0025791-96-2	Poly(oxypropylene) triol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Contains white mineral oil. The exposure limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH.

Carcinogen Data

CAS No.	Ingredient	Source	Value
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0000067-63-0	Isopropyl Alcohol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0008042-47-5	White Mineral oil	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0025791-96-2	Poly(oxypropylene) triol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

None required if good ventilation is maintained. Otherwise self-contained breathing apparatus (pressure-demand, MSHA/NIOSH - approved or equivalent.)

Eyes

Chemical-resistant goggles

Skin

Chemical-resistant apron or other impervious cloth. Latex gloves are recommended.

Engineering Controls

Use explosion proof local exhaust ventilation with min. capture velocity of 100 ft/min at point of vapor evolution.

Other Work Practices

Eyewash stations and chemical showers are strongly recommended. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance

Green, Blue-green, Clear, or Pink, etc colored Liquid

Odor

Sweet Aromatic Smell

Odor threshold

Not determined

pH

Not Measured

Melting point / freezing point

-88°C / -126°F

Initial boiling point and boiling range

82-83°C / 180-181°F

Flash Point

12°C / 54°F

Evaporation rate (Ether = 1)

1.5

Flammability (solid, gas)

Not Applicable

Upper/lower flammability or explosive limits

Lower Explosive Limit: 2.0%

Upper Explosive Limit: 12.7% (at 200°F)

Vapor pressure (Pa)

4,100 Pa (at 20°C/68°F)

Vapor Density

2 (at 20°C/68°F)

Specific Gravity

0.9

Solubility in Water

Insoluble

Partition coefficient n-octanol/water (Log Kow)

Not Measured

Auto-ignition temperature

425°C / 797°F

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Decomposition temperature

Not Measured

Viscosity (cSt)

Not Measured

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid contacts with ignition sources (e.g. sparks, open flame, heated surfaces)

10.5. Incompatible materials

Concentrated Nitric & Sulfuric acids, strong oxidizers, alkalies, halogen compounds.

10.6. Hazardous decomposition products

Combustion will produce CO₂ and possibly CO.

11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Isopropyl Alcohol - (67-63-0)	4,710.00, Rat - Category: 5	12,800.00, Rat - Category: NA	72.60, Rat - Category: NA	No data available	No data available
Poly(oxypropylene) triol - (25791-96-2)	69,632.00, Rat - Category: NA	21,760.00, Rabbit - Category: NA	No data available	No data available	No data available
White Mineral oil - (8042-47-5)	> 5,000.00, Rat - Category: NA	No data available	No data available	No data available	No data available

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Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Isopropyl Alcohol - (67-63-0)	1,400.00, <i>Lepomis macrochirus</i>	100.00, <i>Daphnia magna</i>	100.00 (72 hr), <i>Scenedesmus subspicatus</i>
Poly(oxypropylene) triol - (25791-96-2)	Not Available	Not Available	Not Available
White Mineral oil - (8042-47-5)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

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12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1993	UN1993	UN1993
14.2. UN proper shipping name	UN1993, Flammable liquids, n.o.s., (Isopropanol), 3, II	Flammable liquids, n.o.s., (Isopropanol)	Flammable liquids, n.o.s., (Isopropanol)
14.3. Transport hazard class(es)	DOT Hazard Class: 3	IMDG: 3 Sub Class: Not Applicable	Air Class: 3
14.4. Packing group	II	II	II
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	B2 D2B
US EPA Tier II Hazards	Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Isopropyl Alcohol

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Isopropyl Alcohol

Pennsylvania RTK Substances (>1%):

Isopropyl Alcohol

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

Not Classified Not Classified

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

End of Document

J. MORITA
USA inc

Regional Partner



L-1145 07/15