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SAFETY DATA SHEET

1. Identification

Product identifier: POWERMIGHT DP MOLY CHAIN AND CABLE LUBE

Other means of identification

SDS number: RE1000043548

Recommended restrictions
Product use: Lubricant

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: SIGNAL FLUID SOLUTIONS, INC.

Address: 3403 NIKI WAY

RIVERSIDE, CA 92507

Telephone: 951-784-3900

Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A
Carcinogenicity Category 2
Specific Target Organ Toxicity - Category 1¹

Repeated Exposure

Target Organs

1. Nervous System

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.

Causes serious eye irritation. Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

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Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not eat, drink or smoke when using this product.

Response: 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 advice/attention. IF exposed or concerned: Get

medical advice/attention.

Storage: Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	64742-54-7	50 - <100%
Propane	74-98-6	10 - <20%
Stoddard solvent	8052-41-3	5 - <10%
Solvent naphtha (petroleum), medium aliph.	64742-88-7	1 - <5%
Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	1 - <3%
Ethanol, 2,2'-iminobis-	111-42-2	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.



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5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a

protected location. Move containers from fire area if you can do so without

risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash

back.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep

upwind.

Methods and material for containment and cleaning

up:

Absorb spill with vermiculite or other inert material, then place in a container

for chemical waste.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Stop

the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you

can do so without risk.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer.

7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other

ignition source. Do not pierce or burn, even after use.

Conditions for safe storage,

including any incompatibilities:

Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after

use. Aerosol Level 3



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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chaminal Identity	Type	Evnosura	Limit Values	Source
Chemical Identity	Туре	Exposure	Limit Values	Source
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO - Inhalable fraction.	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO - Mist.	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017)
	REL	4.000	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
Propane	REL PEL	1,000 ppm 1,000 ppm	1,800 mg/m3 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005) US. OSHA Table Z-1 Limits for Air Contaminants (29
	TWA	1,000 ppm	1,800 mg/m3	CFR 1910.1000) (02 2006) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Stoddard solvent	TWA	100 ppm	525 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Cloude Corroll	TWA	100 ppm	020 mg/m0	US. ACGIH Threshold Limit Values (2008)
	REL		350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	Ceil_Time		1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	500 ppm	2,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Ethanol, 2,2'-iminobis-	REL	3 ppm	15 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	3 ppm	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ethanol, 2,2'-iminobis Inhalable fraction and vapor.	TWA		1 mg/m3	US. ACGIH Threshold Limit Values (2009)
Benzene, 1,2,4-trimethyl-	TWA	25 ppm	125 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	25 ppm	125 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates (petroleum), hydrotreated heavy naphthenic	TWA	25 ppm 400 ppm	1,600 mg/m3	US. ACGIH Threshold Limit Values (2008) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
парпителне	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
aprillionia iliia	STEL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), hydrotreated heavy naphthenic	Ceil_Time		1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable fraction.	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), hydrotreated heavy naphthenic	REL		350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Nonane	TWA	200 ppm	1,050 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	200 ppm	1,050 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	200 ppm		US. ACGIH Threshold Limit Values (02 2012)
Molybdenum sulfide (MoS2) - Respirable fraction as Mo	TWA		3 mg/m3	US. ACGIH Threshold Limit Values (2009)
Molybdenum sulfide (MoS2) - Inhalable fraction as Mo	TWA		10 mg/m3	US. ACGIH Threshold Limit Values (2009)
Molybdenum sulfide (MoS2) - Total dust as Mo	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA		10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Graphite - Total dust.	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Graphite - Respirable.	REL		2.5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Graphite - Respirable fraction.	TWA		2 mg/m3	US. ACGIH Threshold Limit Values (2008)



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Graphite	TWA		15 millions of particles per cubic foot of	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
			air	
Graphite - Respirable dust.	TWA		2.5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Graphite - Respirable fraction.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), solvent-refined heavy paraffinic	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), solvent-refined heavy paraffinic	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	STEL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), solvent-refined heavy paraffinic	REL		350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceil_Time		1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Naphthalene	PEL	10 ppm	50 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10 ppm	50 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	15 ppm	75 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	10 ppm	50 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	15 ppm	75 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Benzene, ethyl-	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (12 2010)
Benzene, dimethyl-	STEL	150 ppm	655 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm		US. ACGIH Threshold Limit Values (2008)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	150 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid:	0.15 g/g (Creatinine in urine)	ACGIH BEL (02 2014)
Sampling time: End of shift.)		
Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of	1.5 g/g (Creatinine in urine)	ACGIH BEL (03 2013)
shift.)		

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.



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Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Other: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Avoid contact with eyes. When

using do not smoke.

9. Physical and chemical properties

Appearance

Physical state: liquid

Form: Spray Aerosol
Color: No data available.
Odor: No data available.
Odor threshold: No data available.
PH: No data available.
Melting point/freezing point: No data available.
Initial bailing point and bailing range: 153.63 °C

Initial boiling point and boiling range: 152.62 °C Flash Point: -104.4 °C

Evaporation rate:No data available. **Flammability (solid, gas):**No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: Estimated 5,516 - 6,205 hPa

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Viscosity:
No data available.
No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

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Hazardous Decomposition

Products:

No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

No data available. Eye contact:

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

No data available. Ingestion:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Distillates (petroleum), LD 50 (Rat): > 5,000 mg/kg

hydrotreated heavy paraffinic <3% DMSO

Solvent naphtha

(petroleum), medium

aliph.

Amides, coco, N.N-

bis(hydroxyethyl)

Ethanol, 2,2'-iminobis-

LD 50: > 2,000 mg/kg

LD 50 (Rat): 1,100 mg/kg

LD 50 (Rat): > 5,000 mg/kg

Dermal

Not classified for acute toxicity based on available data. Product:

Specified substance(s):

Distillates (petroleum), hydrotreated heavy

LD 50 (Rabbit): > 5,000 mg/kg

paraffinic <3% DMSO

Solvent naphtha (petroleum), medium

LD 50 (Rabbit): > 2,000 mg/kg

aliph.

Amides, coco, N,N-

LD 50: > 2,000 mg/kg

bis(hydroxyethyl)

Ethanol, 2,2'-iminobis-LD 50: > 2,000 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO

LC 50: > 100 mg/l LC 50: > 100 mg/l

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Propane LC 50: > 100 mg/l LC 5

Amides, coco, N,Nbis(hydroxyethyl)

Ethanol, 2,2'-iminobis
LC 50: > 100 mg/l

LC 50: > 100 mg/l

LC 0 (Rat): 3.35 mg/l

LC 50: > 5 mg/l LC 50: > 20 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Distillates (petroleum), NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation hydrotreated heavy Experimental result, Key study

paraffinic <3% DMSO LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal Experimental

result, Key study

NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal

Experimental result, Key study

Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

Solvent naphtha LOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg (Rat(Female), Oral, 70 -

(petroleum), medium 147 d): 750 mg/kg Oral Experimental result, Key study aliph. LOAEL (Rat(Female, Male), Inhalation - vapor): 0.024

LOAEL (Rat(Female, Male), Inhalation - vapor): 0.024 mg/l (Target Organ(s): Nervous System) Inhalation Experimental result, Key study LOAEL (Rabbit(Female, Male), Dermal): 200 mg/kg (Rabbit(Female, Male),

Dermal): 200 mg/kg Dermal Experimental result, Supporting study

Ethanol, 2,2'-iminobis- LOAEL (Rat(Female), Oral, 13 Weeks): 14 mg/kg Oral Experimental result,

Key study

LOAEL (Rat(Female, Male), Dermal, 13 Weeks): 32 mg/kg Dermal

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation): 3 mg/m3 Inhalation Experimental

result, Key study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO Rabbit, 48 hrs: Not irritating

Solvent naphtha (petroleum), medium

Rabbit, 24 - 72 hrs: Not irritating

aliph.

Respiratory or Skin Sensitization

Product: No data available.



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Specified substance(s):

Distillates (petroleum), Skin sensitization:, in vivo (Guinea pig): Non sensitising

hydrotreated heavy paraffinic <3% DMSO

Solvent naphtha Skin sensitization:, in vivo (Guinea pig): Non sensitising

(petroleum), medium

aliph.

Amides, coco, N,N- Not sensitising

bis(hydroxyethyl)

Ethanol, 2,2'-iminobis- Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Amides, coco, N,N- Overall evaluation: 2B. Possibly carcinogenic to humans.

bis(hydroxyethyl)

Ethanol, 2,2'-iminobis- Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s):

Stoddard solvent Nervous System - Category 1

Ethanol, 2,2'-iminobis- Category 2

Target Organs

Specific Target Organ Toxicity - Repeated Exposure: Nervous System

Aspiration Hazard

Product: No data available.

Specified substance(s):

Stoddard solvent May be fatal if swallowed and enters airways. Solvent naphtha May be fatal if swallowed and enters airways.

(petroleum), medium

aliph.

Other effects: No data available.



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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Distillates (petroleum), LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

hydrotreated heavy paraffinic <3% DMSO

Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Solvent naphtha LL 50 (Oncorhynchus mykiss, 96 h): 2 - 5 mg/l Experimental result, Key

(petroleum), medium study

aliph.

Ethanol, 2,2'-iminobis-LC 50 (Pimephales promelas, 96 h): 1,370 mg/l Experimental result, Key

study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

hydrotreated heavy paraffinic <3% DMSO Solvent naphtha

EC 50 (Daphnia magna, 48 h): 1.4 mg/l Experimental result, Key study (petroleum), medium

aliph.

Ethanol, 2,2'-iminobis-EC 50 (Daphnia magna, 48 h): 55 mg/l Experimental result, Supporting

study

EC 50 (Ceriodaphnia dubia, 48 h): 30.1 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Distillates (petroleum), NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study

hydrotreated heavy paraffinic <3% DMSO

Solvent naphtha NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study

(petroleum), medium

aliph.

Ethanol, 2,2'-iminobis-NOAEL (Various): > 1 mg/l Estimated by calculation, Supporting study

Aquatic Invertebrates Product:

No data available.

Specified substance(s):

Distillates (petroleum), NOAEL (Daphnia magna): >= 1,000 mg/l Experimental result, Supporting hydrotreated heavy study

paraffinic <3% DMSO

Solvent naphtha NOAEL (Daphnia magna): 0.48 mg/l Experimental result, Key study

(petroleum), medium aliph.

Product:

Ethanol, 2,2'-iminobis-NOAEL (Daphnia magna): 0.78 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

No data available.

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Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO

2 - 8 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Experimental result, Supporting study

Propane

100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study 61 % Detected in water. Experimental result, Supporting study

Solvent naphtha (petroleum), medium

aliph.

Ethanol, 2,2'-iminobis-

93 % (28 d) Detected in water. Experimental result, Key study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Ethanol, 2,2'-iminobis-Bioconcentration Factor (BCF): 9.2 Aquatic sediment Estimated by

calculation, Weight of Evidence study

Partition Coefficient n-octanol / water (log Kow)

No data available. Product:

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO No data available. Propane No data available. Stoddard solvent No data available.

Solvent naphtha (petroleum), medium aliph. No data available. Amides, coco, N,N-bis(hydroxyethyl) No data available. Ethanol, 2,2'-iminobis-No data available.

Other adverse effects: Harmful to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2.1 Label(s): Packing Group: Ш Marine Pollutant: No

Environmental Hazards: No Marine Pollutant No

Special precautions for user:

Not regulated.

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IMDG

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2
Label(s): –
EmS No.:

Packing Group: -

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

IATA

UN Number: UN 1950

Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

Class: 2.1
Label(s): –

Packing Group: –

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Propane	lbs. 100
Ethanol, 2,2'-iminobis-	lbs. 100
Nonane	lbs. 100
Naphthalene	lbs. 100
Benzene, ethyl-	lbs. 1000
Benzene, dimethyl-	lbs. 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Flammable aerosol

Carina E Dans

Serious Eye Damage/Eye Irritation

Carcinogenicity

Specific Target Organ Toxicity - Repeated Exposure

SARA 302 Extremely Hazardous Substance

<u>Chemical Identity</u> <u>Reportable quantity</u> <u>Threshold Planning Quantity</u>

Amides, coco, N,N-bis(hydroxyethyl)

SDS_US - RE1000043548



Revision Date: 03/05/2020

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Propane	lbs. 100
Amides, coco, N,N-bis(hydroxyethyl)	
Ethanol, 2,2'-iminobis-	lbs. 100
Nonane	lbs. 100
Naphthalene	lbs. 100
Benzene, ethyl-	lbs. 1000
Benzene, dimethyl-	lbs. 100

SARA 311/312 Hazardous Chemical

Of the total of the transfer o	
Chemical Identity	Threshold Planning Quantity
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO	10000 lbs
Propane	10000 lbs
Stoddard solvent	10000 lbs
Amides, coco, N,N-bis(hydroxyethyl)	10000 lbs
Ethanol, 2,2'-iminobis-	10000 lbs
Benzene, 1,2,4-trimethyl-	10000 lbs
Distillates (petroleum), hydrotreated heavy naphthenic	10000 lbs
Nonane	10000 lbs
Molybdenum sulfide (MoS2)	10000 lbs
Sulfonic acids, petroleum, calcium salts	10000 lbs
Graphite	10000 lbs
Distillates (petroleum), solvent-refined heavy paraffinic	10000 lbs
Naphthalene	10000 lbs
Benzene, ethyl-	10000 lbs
Benzene, dimethyl-	10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Amides, coco, N,N-bis(hydroxyethyl)	Carcinogenic. 06 2015
Ethanol, 2,2'-iminobis-	Carcinogenic. 07 2012
Fatty acids, coco, compds. with diethanolamine	Carcinogenic. 06 2015
Naphthalene	Carcinogenic. 05 2011
Benzene, ethyl-	Carcinogenic. 05 2011

US. New Jersey Worker and Community Right-to-Know Act Chemical Identity

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO

Propane

Stoddard solvent

Amides, coco, N,N-bis(hydroxyethyl)

Distillates (petroleum), hydrotreated heavy naphthenic

Distillates (petroleum), solvent-refined heavy paraffinic

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO

Propane

Stoddard solvent



Revision Date: 03/05/2020

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Amides, coco, N,N-bis(hydroxyethyl)

Stockholm convention

Amides, coco, N,N-bis(hydroxyethyl)

Rotterdam convention

Amides, coco, N,N-bis(hydroxyethyl)

Kyoto protocol

Inventory Status:

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List: On or in compliance with the inventory

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Japan (ENCS) List: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Philippines PICCS: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals:

On or in compliance with the inventory

Japan ISHL Listing: Not in compliance with the inventory.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Mexico INSQ: Not in compliance with the inventory.

Ontario Inventory: Not in compliance with the inventory.

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

China Inv. Existing Chemical Substances:

On or in compliance with the inventory

16.Other information, including date of preparation or last revision

Issue Date: 03/05/2020

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.