## **B4300-Transmission Stop Leak**

Version 3.1 Revision Date: 6/2/15

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name** B4300

**Product Use Description** Transmission Stop Leak

### Manufacturer or supplier's details

The Berkebile Oil Company Manufacturer Name Address 1216 Red Brant Road Somerset, PA 15501 Phone 814-443-1656

Email info@berkebileoil.com

Fax 814-443-2873 Chemtrec Emergency Tel # 800-424-9300

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Aspiration hazard : Category 1

**GHS Label element** 

Hazard pictograms







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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Precautionary statements

#### : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

#### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### **Potential Health Effects**

**Carcinogenicity:** 

**IARC** Group 2B: Possibly carcinogenic to humans

98-82-8 Cumene

**ACGIH** Confirmed animal carcinogen with unknown relevance to

humans

64742-95-6 Solv naphtha (pet), light

arom.

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**OSHA**No component of this product present at levels greater

than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by OSHA.

NTP No component of this product present at levels greater

than or equal to 0.1% is identified as a known or antici-

pated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or antici-

pated carcinogen by NTP.

#### **Emergency Overview**

Appearance	liquid
Colour	clear, colourless
Odour	aromatic
Hazard Summary	No information available.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

## **Hazardous components**

CAS-No.	Chemical Name	Concentration
64742-65-0	Petroleum, Solvent Dewaxed Heavy Paraffinic	>50
Proprietary	Additives	<10
64742-95-6	Solv naphtha (pet), light arom.	<20
25551-13-7	Benzene, trimethyl-	<10
95-63-6	1,2,4-trimethylbenzene	<10
108-67-8	Benzene, 1,3,5-trimethyl-	<10
526-73-8	Benzene, 1,2,5-trimethyl-	<10
98-82-8	Cumene	<10
1330-20-7	Mixed Xylenes	<10
25155-15-1	Cymenes	<10

**Special Notes:** : GHS Classification is based on the product CAS num-

ber(s).

## **SECTION 4. FIRST AID MEASURES**

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General advice : Show this safety data sheet to the doctor in attend-

ance.

Symptoms of poisoning may appear several hours

later.

If inhaled : Consult a physician after significant exposure.

In case of skin contact : Take victim immediately to hospital.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Take victim immediately to hospital.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing

media

: Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains

or water courses.

Hazardous combustion

products

: No hazardous combustion products are known

Specific extinguishing

methods

: Use a water spray to cool fully closed containers.

Further information : Collect contaminated fire extinguishing water sepa-

rately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regu-

lations.

For safety reasons in case of fire, cans should be

stored separately in closed containments.

Special protective equipment for firefighters

p- : Wear self-contained breathing apparatus for fire-

fighting if necessary.

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NFPA Flammable and Combustible Liquids Classification:

Combustible Liquid Class II

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains

inform respective authorities.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regula-

tions (see section 13).

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## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in

the application area.

Take precautionary measures against static discharg-

es.

Provide sufficient air exchange and/or exhaust in work

rooms.

Open drum carefully as content may be under pres-

sure.

Dispose of rinse water in accordance with local and

national regulations.

Conditions for safe stor-

age

: Prevent unauthorized access.

No smoking.

Keep container tightly closed in a dry and well-

ventilated place.

Containers which are opened must be carefully re-

sealed and kept upright to prevent leakage.

Observe label precautions.

Electrical installations / working materials must com-

ply with the technological safety standards.

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **Components with workplace control parameters**

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
64742-95-6	Solv naphtha (pet), light arom.	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3 (as total hydro- carbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA PO
25551-13-7	Benzene, trimethyl-	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
95-63-6	1,2,4-trimethylbenzene	TWA	25 ppm 125 mg/m3	NIOSH REL
108-67-8	Benzene, 1,3,5-trimethyl-	TWA	25 ppm 125 mg/m3	NIOSH REL
526-73-8	Benzene, 1,2,5-trimethyl-	TWA	25 ppm 125 mg/m3	NIOSH REL
98-82-8	Cumene	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	NIOSH REL
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0
1330-20-7	Mixed Xylenes	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA PO

## **Biological occupational exposure limits**

Components	CAS-No.	Control	Biological	Sam-	Permissi-	Basis
		parame	specimen	pling	ble con-	
		- ters		time	centration	
Mixed Xylenes	1330-	Methylhip	Urine	End of	1.5 g/g	ACGI
	20-7	puric acids		shift	creatinine	H BEI

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## **Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally

required.

In the case of vapour formation use a respirator with

an approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be dis-

cussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal pro-

cessing problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work

place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and immediately after

handling the product.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : clear, colourless

Odour : aromatic

Odour Threshold : No data available

pH : No data available

Freezing Point (Melting : -53 °C (-63 °F)

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point/range)

Boiling Point (Boiling point/boiling range)

: 148.9 °C (300.0 °F)

Flash point

: 41.7 °C (107.1 °F)

Evaporation rate

: No data available

Flammability (solid, gas) : No data available

Burning rate

: No data available

Upper explosion limit

: 7 %(V)

Lower explosion limit

: 1.0 %(V)

Vapour pressure

: 2.1 mmHg @ 20 °C (68 °F)

Relative vapour density

3.5(Air = 1.0)

Relative density

: 0.87 @ 15.6 °C (60.1 °F)

Density

: 0.872 g/cm3 @ 20 °C (68 °F)

Bulk density

: No data available

Solubility(ies)

Water solubility

: negligible

Solubility in other sol-

: No data available

vents

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Thermal decomposition : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

: No dangerous reaction known under conditions of Reactivity

normal use.

: Stable under normal conditions. Chemical stability

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Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : Strong oxidizing agents

## **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

### Components:

64742-95-6:

Acute oral toxicity : LD50 (rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

## Skin corrosion/irritation

#### **Product:**

Result: Irritating to skin.

## **Components:**

#### 64742-95-6:

Species: rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Irritating to skin.

GLP: yes

## Serious eye damage/eye irritation

#### **Product:**

Result: Irritating to eyes.

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#### **Components:**

## 64742-95-6: Species: rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

GLP: yes

#### Respiratory or skin sensitisation

#### **Components:**

## 64742-95-6:

Test Type: Buehler Test Species: guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

### Germ cell mutagenicity

#### **Components:**

### 64742-95-6:

: Mutagenicity classification not possible from current Germ cell mutagenicity-

Assessment data

#### Carcinogenicity

### Components:

#### 64742-95-6:

Species: rat, (male and female) Application Route: Inhalation Exposure time: 113 wk

Dose: 0, 322, 1402, 9869 mg/m3

Frequency of Treatment: 6 h/day, 5d/week

Method: OECD Test Guideline 451

Symptoms: weight loss

GLP: yes

Carcinogenicity - As-

: Not classifiable as a human carcinogen.

sessment

98-82-8:

Carcinogenicity - As-

sessment

: Not classifiable as a human carcinogen.

## Reproductive toxicity

## **Components:**

64742-95-6:

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Reproductive toxicity - Assessment

: Fertility classification not possible from current data. Embryotoxicity classification not possible from current

**STOT - single exposure** 

**Product:** No data available

**Components:** 

64742-95-6: No data available

25551-13-7:No data available

95-63-6:No data available

108-67-8:No data available

526-73-8:No data available

98-82-8:No data available

1330-20-7: No data available

25155-15-1: No data available

STOT - repeated exposure

**Product:** No data available

**Components:** 

64742-95-6: No data available

25551-13-7:No data available

95-63-6:No data available

108-67-8:No data available

526-73-8:No data available

98-82-8:No data available

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1330-20-7: No data available

25155-15-1:No data available

**Aspiration toxicity** 

**Product:** 

May be fatal if swallowed and enters airways.

**Components:** 

64742-95-6:

May be fatal if swallowed and enters airways.

**Further information** 

**Product:** 

Remarks: Solvents may degrease the skin.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

**Components:** 

64742-95-6:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l

Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: yes

Remarks: Toxic to aquatic organisms.

Toxicity to daphnia and

other aquatic inverte-

brates

: EL50 (Daphnia magna (Water flea)): 4.5 mg/l

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Remarks: Toxic to aquatic organisms.

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata): 3.1 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

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Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### Persistence and degradability

#### Components:

64742-95-6:

Biodegradability : aerobic

Inoculum: Activated sludge, domestic, non-adapted

Concentration: 49.2 mg/l Biodegradation: 77.05 % Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Remarks: Readily biodegradable

#### **Bioaccumulative potential**

#### **Components:**

64742-95-6:

Partition coefficient: n- : log Pow: 3.42 (25 °C)

octanol/water

95-63-6:

Partition coefficient: n-

octanol/water

: Remarks: No data available

108-67-8:

Partition coefficient: n-

octanol/water

: log Pow: 3.42

526-73-8:

Partition coefficient: n-

octanol/water

: Remarks: No data available

98-82-8:

Partition coefficient: n-

.. 11-

: log Pow: 3.55 (23 °C)

1330-20-7:

octanol/water

Partition coefficient: n-

octanol/water

: log Pow: 2.77 - 3.15

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25155-15-1:

Partition coefficient: n-

octanol/water

: log Pow: 4.26

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection

of Stratospheric Ozone - CAA Section 602 Class I Sub-

stances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological in-

formation

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to

aquatic life with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with all applicable local,

state and federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty

drum.

#### **SECTION 14. TRANSPORT INFORMATION**

**IATA (International Air Transport Association)**: UN1268, PETROLEUM DISTILLATES, N.O.S., (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.), 3, III, Flash Point:41.7 °C(107.1 °F)

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**IMDG (International Maritime Dangerous Goods):** UN1268, PETROLEUM DISTILLATES, N.O.S., (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.), 3, III

**DOT (Department of Transportation)**: UN1268, PETROLEUM DISTILLATES, N.O.S., (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.), CBL, III

**Special Notes:** : The flash point for this material is greater than 100 F

(38 C). Therefore, in accordance with 49 CFR

173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

#### **SECTION 15. REGULATORY INFORMATION**

**OSHA Hazards** : Combustible Liquid, Moderate skin irritant, Moderate

eye irritant, Aspiration hazard

WHMIS Classification : B3: Combustible Liquid

D2B: Toxic Material Causing Other Toxic Effects

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Mixed Xylenes	1330-20-7	100	3333

#### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 : Fire Hazard

**Hazards** Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject

to the reporting requirements of SARA Title III,

Section 302.

**SARA 313** : The following components are subject to reporting

levels established by SARA Title III, Section 313:

95-63-6 1,2,4- 35 %

trimethylbenzene

98-82-8 Cumene 6 %

1330-20-7 Mixed Xylenes 3 %

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#### **Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

98-82-8	Cumene	6 %
1330-20-7	Mixed Xylenes	3 %
108-88-3	Toluene	0.0999 %
71-43-2	Benzene	0.0999 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

98-82-8	Cumene	6 %
1330-20-7	Mixed Xylenes	3 %
108-88-3	Toluene	0.0999 %
71-43-2	Benzene	0.0999 %

#### **Clean Water Act**

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1330-20-7	Mixed Xylenes	3 %
108-88-3	Toluene	0.0999 %
71-43-2	Benzene	0.0999 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1330-20-7	Mixed Xylenes	3 %
108-88-3	Toluene	0.0999 %
71-43-2	Benzene	0.0999 %

#### **US State Regulations**

#### **Massachusetts Right To Know**

25551-13-7	Benzene, trimethyl-	0 - 50 %
95-63-6	1,2,4-trimethylbenzene	0 - 35 %
108-67-8	Benzene, 1,3,5-trimethyl-	0 - 15 %
98-82-8	Cumene	0 - 6 %
1330-20-7	Mixed Xylenes	0 - 3 %
71-43-2	Benzene	0 - 0.1 %

#### Pennsylvania Right To Know

64742-95-6	Solv naphtha (pet), light arom.	90 - 100 %
25551-13-7	Benzene, trimethyl-	0 - 50 %
95-63-6	1,2,4-trimethylbenzene	0 - 35 %
108-67-8	Benzene, 1,3,5-trimethyl-	0 - 15 %
526-73-8	Benzene, 1,2,5-trimethyl-	0 - 15 %
98-82-8	Cumene	0 - 6 %
1330-20-7	Mixed Xylenes	0 - 3 %
108-88-3	Toluene	0 - 0.1 %

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	71-43-2	Benzene	0 - 0.1 %
New Jerse	ey Right To Know	N	
	64742-95-6 25551-13-7 95-63-6 108-67-8 526-73-8 98-82-8 1330-20-7 25155-15-1	Solv naphtha (pet), light arom Benzene, trimethyl- 1,2,4-trimethylbenzene Benzene, 1,3,5-trimethyl- Benzene, 1,2,5-trimethyl- Cumene Mixed Xylenes Cymenes	0. 90 - 100 % 0 - 50 % 0 - 35 % 0 - 15 % 0 - 15 % 0 - 6 % 0 - 3 % 0 - 1.5 %
California	98-82-8 71-43-2 108-88-3 71-43-2	WARNING! This product conta the State of California to caus Cumene Benzene WARNING: This product conta the State of California to caus reproductive harm. Toluene Benzene	e cancer. iins a chemical known to

## The components of this product are reported in the following inventories:

United States TSCA Inventory	:	y (positive listing) (On TSCA Invento- ry)
Canadian Domestic Substances List (DSL)	:	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances	:	n (Negative listing) (Not in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	:	n (Negative listing) (Not in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)	:	y (positive listing) (On the inventory, or in compliance

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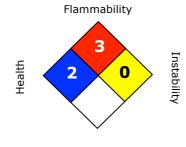
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		with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	y (positive listing) (On the inventory, or in compliance with the inventory)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### **NFPA:**



Special hazard.

## **HMIS III:**

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared Zach Sherbine.

**Legecy MSDS:** R0004323

#### Material number:

16065783, 16055873, 16055872, 16055871, 16055870, 16056200, 16055874, 16058126, 16050370, 16036718, 16026513, 16028515, 16022006, 16003577, 16000776, 765186, 722276, 728938, 722449, 699271, 690253, 576976, 554215,

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547291, 547149, 547132, 547150, 546369, 508400, 102686, 102895, 86823, 53547, 69920, 70133, 86460, 500111, 20496, 39847, 20502, 508399, 85970, 53209, 86517, 53702, 54052, 69186, 86813, 20501, 20499, 20498, 20497, 502662, 53756, 70439

Key or le	Key or legend to abbreviations and acronyms used in the safety datasheet						
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%				
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level				
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency				
NDSL	Canada, Non-Domestic Sub- stances List	NIOSH	National Institute for Occupational Safety & Health				
CNS	Central Nervous System	NTP	National Toxicology Program				
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals				
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level				
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration				
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration				
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit				
EINECS	European Inventory of Exist- ing Chemical Substances	PICCS	Philipines Inventory of Commercial Chemical Substances				
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic				
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act				
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit				
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.				
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value				
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average				
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act				
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Compositon, Complex Reaction Products, and Biological Materials				
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System				
LC50	Lethal Concentration 50%						