FRSC Chemical Solutions

SAFETY DATA SHEET

1. Identification

Product identifier Liquid Wrench Lubricating Oil

Other means of identification

SDS number L249 Part No. L249

Tariff code 3403.19.1000

Recommended use Lubricant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name
Address
RSC Chemical Solutions
600 Radiator Road
Indian Trail, NC 28079

United States

Telephone Customer Service: (704) 821-7643

Technical: (704) 684-1811

Website www.rscbrands.com E-mail sds@rscbrands.com

Emergency phone number Emergency Telephone: (303) 623-5716

Emergency Contact: RMPDC (877-740-5015)

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2AGerm cell mutagenicityCategory 1B

Carcinogenicity Category 1B Reproductive toxicity (fertility, the unborn Category 2

child)

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Category 2

Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Category 3

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways.

Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Material name: Liquid Wrench Lubricating Oil

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Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face

protection.

Response If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get

medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire:

Use appropriate media to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Storage

Keep cool. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Combustible.

Supplemental information 76.44% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), Hydrotreated Heavy Naphthenic		64742-52-5	40 - < 50
2-(2-butoxyéthoxy) Éthanol		112-34-5	10 - < 20
Low Odor Base Solvent		64742-47-8	10 - < 20
Naphtha (petroleum), Hydrotreated Heavy		64742-48-9	5 - < 10
Solvent Naphtha (petroleum), Medium Aliph.		64742-88-7	5 - < 10
Stoddard Solvent		8052-41-3	5 - < 10
NAPHTHALENE		91-20-3	< 1
Nonane		111-84-2	< 1
BENZENE, METHYL-		108-88-3	< 0.3
BENZENE,1-METHYLETHYL-		98-82-8	< 0.3
ETHYLBENZENE		100-41-4	< 0.3
HEXANE		110-54-3	< 0.3
Other components below reportable level	s		5 - < 10

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Inhalation

CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation Skin contact

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Alcohol resistant foam. Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible. Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat and sources of ignition. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air (Components	Туре	Value	Form
BENZENE,1-METHYLETHY (CAS 98-82-8)	PEL	245 mg/m3	
(,		50 ppm	
Distillates (petroleum), Hydrotreated Heavy Japhthenic (CAS 14742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
ETHYLBENZENE (CAS 00-41-4)	PEL	500 ppm 435 mg/m3	
100 41 4)		100 ppm	
HEXANE (CAS 110-54-3)	PEL	1800 mg/m3 500 ppm	
Naphtha (petroleum), Hydrotreated Heavy (CAS 34742-48-9)	PEL	400 mg/m3	
		100 ppm	
NAPHTHALENE (CAS 91-20-3)	PEL	50 mg/m3	
Stoddard Solvent (CAS	PEL	10 ppm 2900 mg/m3	
8052-41-3)	1000\	500 ppm	
JS. OSHA Table Z-2 (29 CFR 1910.1 Components	Type	Value	
BENZENE, METHYL- (CAS 108-88-3)	Ceiling	300 ppm	
100-00-3)	TWA	200 ppm	
JS. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
2-(2-butoxyéthoxy) Éthanol CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
BENZENE, METHYL- (CAS 108-88-3)	TWA	20 ppm	
BENZENE,1-METHYLETHY (CAS 98-82-8)	TWA	50 ppm	
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
HEXANE (CAS 110-54-3)	TWA	50 ppm	
NAPHTHALENE (CAS 91-20-3)	TWA	10 ppm	
Nonane (CAS 111-84-2)	TWA	200 ppm	
Solvent Naphtha petroleum), Medium Aliph. CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.
Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm	
JS. NIOSH: Pocket Guide to Chemi	ical Hazards		
Components	Туре	Value	Form
BENZENE, METHYL- (CAS 108-88-3)	STEL	560 mg/m3	
,		150 ppm	

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Components	Туре	Value	Form
	TWA	375 mg/m3	
		100 ppm	
BENZENE,1-METHYLETHY L- (CAS 98-82-8)	TWA	245 mg/m3	
		50 ppm	
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
ETHYLBENZENE (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
HEXANE (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	
Low Odor Base Solvent (CAS 64742-47-8)	TWA	100 mg/m3	
Naphtha (petroleum), Hydrotreated Heavy (CAS 64742-48-9)	TWA	400 mg/m3	
,		100 ppm	
NAPHTHALENE (CAS 91-20-3)	STEL	75 mg/m3	
,		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
Nonane (CAS 111-84-2)	TWA	1050 mg/m3	
		200 ppm	
Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)	TWA	100 mg/m3	
Stoddard Solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3	
- /	TWA	350 mg/m3	

Biological limit values

ACGIH Biological Exposure Indices Components Value **Determinant Specimen Sampling Time** BENZENE, METHYL- (CAS 0.3 mg/g o-Cresol, with Creatinine in hydrolysis urine 108-88-3) 0.03 mg/l Toluene Urine 0.02 mg/l Toluene Blood ETHYLBENZENE (CAS 0.15 g/g Sum of Creatinine in mandelic acid 100-41-4) urine and phenylglyoxylic acid Urine HEXANE (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without hydrolysis

Exposure guidelines

US - California OELs: Skin designation

BENZENE, METHYL- (CAS 108-88-3) BENZENE,1-METHYLETHYL- (CAS 98-82-8) HEXANE (CAS 110-54-3)

US - Minnesota Haz Subs: Skin designation applies

BENZENE, METHYL- (CAS 108-88-3) BENZENE,1-METHYLETHYL- (CAS 98-82-8) Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin.

Skin designation applies. Skin designation applies.

^{* -} For sampling details, please see the source document.

US - Tennessee OELs: Skin designation

BENZENE,1-METHYLETHYL- (CAS 98-82-8) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

HEXANE (CAS 110-54-3) Can be absorbed through the skin. NAPHTHALENE (CAS 91-20-3) Can be absorbed through the skin. Solvent Naphtha (petroleum), Medium Aliph. (CAS Can be absorbed through the skin.

64742-88-7)

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

BENZENE,1-METHYLETHYL- (CAS 98-82-8) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

BENZENE,1-METHYLETHYL- (CAS 98-82-8) Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Chemical respirator with organic vapor cartridge and full facepiece. Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Chemical respirator with organic vapor cartridge and full facepiece. Respiratory protection

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Liquid. Opaque **Appearance**

Liquid. **Physical state Form** Liquid. Color Yellow. Odor Sweet Vanilla **Odor threshold** Not available. Not available.

-94 °F (-70 °C) estimated Melting point/freezing point 314.6 °F (157 °C) estimated Initial boiling point and boiling

range

pН

136.0 °F (57.8 °C) Tag Closed Cup Flash point

Evaporation rate Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

0.7 % estimated

(%)

Flammability limit - upper

6 % estimated

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure 0.31 hPa estimated Not available. Vapor density

1.46 Relative density

Solubility(ies)

Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature

229 °F (109.44 °C) estimated

Decomposition temperature

Not available. Not available.

Other information

Viscosity

Density 7.26 lbs/gal Not explosive. **Explosive properties**

Combustible II estimated Flammability class

< 0.1 % Moisture Oxidizing properties Not oxidizing. 16.22 % estimated Percent volatile

Specific gravity 0.87 VOC (Weight %) 24 %

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Possibility of hazardous

reactions

Material is stable under normal conditions. Hazardous polymerization does not occur.

Strong oxidizing agents.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation.

Causes serious eye irritation. Eye contact

Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or Ingestion

vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Headache. May cause drowsiness and dizziness. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

May be fatal if swallowed and enters airways. Narcotic effects. **Acute toxicity**

Components **Species Test Results**

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

Acute

Dermal

LD50 Rabbit 2700 mg/kg

Inhalation

Liquid

LC50 Rat > 29 ppm

Oral

LD50 Guinea pig 2000 mg/kg

Mouse 2400 mg/kg Rabbit 2200 mg/kg Rat 4500 mg/kg

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Test Results Components **Species** BENZENE, METHYL- (CAS 108-88-3) **Acute Dermal** LD50 Rabbit 12124 mg/kg 14.1 ml/kg Inhalation LC50 Mouse 5320 ppm, 8 Hours 400 ppm, 24 Hours Rat 26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours Oral LD50 Rat 2.6 g/kg BENZENE,1-METHYLETHYL- (CAS 98-82-8) **Acute** Inhalation LC50 Mouse 2000 ppm, 7 Hours 24.7 mg/l, 2 Hours Rat 8000 ppm, 4 Hours Oral LD50 Rat 1400 mg/kg ETHYLBENZENE (CAS 100-41-4) Acute **Dermal** LD50 Rabbit 17800 mg/kg Oral LD50 Rat 3500 mg/kg HEXANE (CAS 110-54-3) **Acute** Inhalation LC50 Mouse 48000 ppm, 4 Hours Oral LD50 Rat 24 mg/kg Wistar rat 49 mg/kg Naphtha (petroleum), Hydrotreated Heavy (CAS 64742-48-9) **Acute** Inhalation LC50 Rat 61 mg/l, 4 Hours Oral LD50 Rat > 25 ml/kg NAPHTHALENE (CAS 91-20-3) **Acute Dermal** LD50 Rabbit > 2 g/kg

Oral LD50 > 20 g/kg

1200 mg/kg

490 mg/kg

Rat

Guinea pig Rat

Components Species Test Results

Nonane (CAS 111-84-2)

Acute Inhalation

LC50 Rat 3200 ppm, 4 Hours

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

BENZENE, METHYL- (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

BENZENE,1-METHYLETHYL- (CAS 98-82-8)
ETHYLBENZENE (CAS 100-41-4)
NAPHTHALENE (CAS 91-20-3)

2B Possibly carcinogenic to humans.
2B Possibly carcinogenic to humans.
2B Possibly carcinogenic to humans.

Stoddard Solvent (CAS 8052-41-3) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

NAPHTHALENE (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

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Components		Species	Test Results
2-(2-butoxyéthoxy) Éth	nanol (CAS 112-34-	-5)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
BENZENE, METHYL-	(CAS 108-88-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
BENZENE,1-METHYL	ETHYL- (CAS 98-8	32-8)	
Aquatic			
Crustacea	EC50	Brine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 mg/l, 96 hours
ETHYLBENZENE (CA	AS 100-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours

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^{*} Estimates for product may be based on additional component data not shown.

Components Species Test Results

HEXANE (CAS 110-54-3)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

Low Odor Base Solvent (CAS 64742-47-8)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 2.9 mg/l, 96 hours

(Oncorhynchus mykiss)

Naphtha (petroleum), Hydrotreated Heavy (CAS 64742-48-9)

LC50

Aquatic

Fish

Crustacea EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/l, 48 hours

Rainbow trout, donaldson trout (Oncorhynchus mykiss)

8.8 mg/l, 96 hours

8.8 mg/l, 96 hours

NAPHTHALENE (CAS 91-20-3)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 1.09 - 3.4 mg/l, 48 hours
Fish LC50 Pink salmon (Oncorhynchus gorbuscha) 1.11 - 1.68 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-(2-butoxyéthoxy) Éthanol	0.56
BENZENE, METHYL-	2.73
BENZENE,1-METHYLETHYL-	3.66
ETHYLBENZENE	3.15
HEXANE	3.9
NAPHTHALENE	3.3
Nonane	5.46
Stoddard Solvent	3.16 - 7.15

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulationsDispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN1993

UN proper shipping name

Transport hazard class(es)

Flammable liquids, n.o.s. (ALIPHATIC HYDROCARBON SOLVENT)

Class 3 Subsidiary risk -

^{*} Estimates for product may be based on additional component data not shown.

Label(s) 3
Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions B1, B52, IB3, T4, TP1, TP29

Packaging exceptions150Packaging non bulk203Packaging bulk242

IATA

UN number UN1993

UN proper shipping name Flammable liquid, n.o.s. (Aliphatic Hydrocarbon Solvent)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group III
Environmental hazards Yes
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

IMDG

UN number UN1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (ALIPHATIC HYDROCARBON SOLVENT) **Transport hazard class(es)**

Class 3
Subsidiary risk Packing group III

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

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

the IBC Code

DOT



IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

Nonane (CAS 111-84-2) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5) Listed.
BENZENE, METHYL- (CAS 108-88-3) Listed.
BENZENE,1-METHYLETHYL- (CAS 98-82-8) Listed.
ETHYLBENZENE (CAS 100-41-4) Listed.
HEXANE (CAS 110-54-3) Listed.
NAPHTHALENE (CAS 91-20-3) Listed.
Nonane (CAS 111-84-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Cher	nical name	CAS number	% by wt.
2-(2-	butoxyéthoxy) Éthanol	112-34-5	10 - < 20
NAPI	HTHALENE	91-20-3	< 1
ETH)	YLBENZENE	100-41-4	< 0.3

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

BENZENE, METHYL- (CAS 108-88-3)

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

ETHYLBENZENE (CAS 100-41-4)

HEXANE (CAS 110-54-3)

NAPHTHALENE (CAS 91-20-3)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

BENZENE, METHYL- (CAS 108-88-3)

6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

BENZENE, METHYL- (CAS 108-88-3)

35 %WV

DEA Exempt Chemical Mixtures Code Number

BENZENE, METHYL- (CAS 108-88-3) 594

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

BENZENE, METHYL- (CAS 108-88-3)

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)

ETHYLBENZENE (CAS 100-41-4)

HEXANE (CAS 110-54-3)

Low Odor Base Solvent (CAS 64742-47-8)

Naphtha (petroleum), Hydrotreated Heavy (CAS 64742-48-9)

NAPHTHALENE (CAS 91-20-3)

Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)

Stoddard Solvent (CAS 8052-41-3)

US. Massachusetts RTK - Substance List

BENZENE, METHYL- (CAS 108-88-3)

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)

ETHYLBENZENE (CAS 100-41-4)

HEXANE (CAS 110-54-3)

Low Odor Base Solvent (CAS 64742-47-8)

Naphtha (petroleum), Hydrotreated Heavy (CAS 64742-48-9)

NAPHTHALENE (CAS 91-20-3)

Nonane (CAS 111-84-2)

Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)

Stoddard Solvent (CAS 8052-41-3)

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

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

BENZENE, METHYL- (CAS 108-88-3)

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

ETHYLBENZENE (CAS 100-41-4)

HEXANE (CAS 110-54-3)

Low Odor Base Solvent (CAS 64742-47-8)

Naphtha (petroleum), Hydrotreated Heavy (CAS 64742-48-9)

NAPHTHALENE (CAS 91-20-3)

Nonane (CAS 111-84-2)

Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)

Stoddard Solvent (CAS 8052-41-3)

US. Pennsylvania Worker and Community Right-to-Know Law

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

BENZENE, METHYL- (CAS 108-88-3)

BENZENE,1-METHYLETHYL- (CAS 98-82-8)

ETHYLBENZENE (CAS 100-41-4)

HEXANE (CAS 110-54-3)

Low Odor Base Solvent (CAS 64742-47-8)

Naphtha (petroleum), Hydrotreated Heavy (CAS 64742-48-9)

NAPHTHALENE (CAS 91-20-3)

Nonane (CAS 111-84-2)

Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)

Stoddard Solvent (CAS 8052-41-3)

US. Rhode Island RTK

2-(2-butoxyéthoxy) Éthanol (CAS 112-34-5)

BENZENE, METHYL- (CAS 108-88-3)

BENZENE, 1-METHYLETHYL- (CAS 98-82-8)

ETHYLBENZENE (CAS 100-41-4)

HEXANE (CAS 110-54-3)

NAPHTHALENE (CAS 91-20-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

BENZENE (CAS 71-43-2)
BENZENE,1-METHYLETHYL- (CAS 98-82-8)
ETHYLBENZENE (CAS 100-41-4)
NAPHTHALENE (CAS 91-20-3)
Listed: February 27, 1987
Listed: April 6, 2010
Listed: June 11, 2004
Listed: April 19, 2002

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Inventory name

BENZENE (CAS 71-43-2)
BENZENE, METHYL- (CAS 108-88-3)
Listed: January 1, 1991
US - California Proposition 65 - CRT: Listed date/Female reproductive toxin
BENZENE, METHYL- (CAS 108-88-3)
Listed: August 7, 2009
US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

BENZENE (CAS 71-43-2) Listed: December 26, 1997

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

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

 Issue date
 04-29-2015

 Revision date
 07-29-2015

Version # 02

United States & Puerto Rico

HMIS® ratings Health: 2

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 2 Instability: 0

NFPA ratings



Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

On inventory (yes/no)*

Yes

Revision Information

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information Regulatory Information: United States Regulatory information: California Prop 65 Regulatory information: US federal regulations GHS: Classification

L249 Version #: 02 Revision date: 07-29-2015 Issue date: 04-29-2015