



SAFETY DATA SHEET

1. Identification

Product identifier	Motor Treatment
Other means of identification	
Product Code	No. 05316 (Item# 1003761)
Recommended use	Fuel system cleaner
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Manufactured or sold by:	
Company name	CRC Industries, Inc.
Address	885 Louis Dr. Warminster, PA 18974 US
Telephone	
General Information	215-674-4300
Technical Assistance	800-521-3168
Customer Service	800-272-4620
24-Hour Emergency	800-424-9300 (US)
(CHEMTREC)	703-527-3887 (International)
Website	www.crcindustries.com

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2 (central nervous system)
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word

Danger

Hazard statement

Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs (central nervous system) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

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. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire. Collect spillage.

Storage

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
stoddard solvent		8052-41-3	20 - 30
2-butoxyethanol		111-76-2	10 - 20
distillates (petroleum), hydrotreated heavy paraffinic		64742-54-7	10 - 20
distillates (petroleum), hydrotreated light paraffinic		64742-55-8	10 - 20
naphtha (petroleum), hydrotreated heavy		64742-48-9	10 - 20
solvent naphtha (petroleum), light arom.		64742-95-6	3 - 5
1,2,4-trimethylbenzene		95-63-6	1 - 3
n-nonane		111-84-2	1 - 3
trimethylbenzene		25551-13-7	1 - 3
cumene		98-82-8	< 1
ethylbenzene		100-41-4	< 1
toluene		108-88-3	< 1
naphthalene		91-20-3	< 0.3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

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

Indication of immediate medical attention and special treatment needed	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 under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
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 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.
General fire hazards	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	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Prevent product from entering drains. 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. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**U.S. - OSHA
Components**

Components	Type	Value
distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3

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

Components	Type	Value	Form
2-butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
cumene (CAS 98-82-8)	PEL	50 ppm 245 mg/m3	
distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	PEL	50 ppm 5 mg/m3	Mist.
ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	PEL	100 ppm 400 mg/m3	
naphthalene (CAS 91-20-3)	PEL	100 ppm 50 mg/m3	
solvent naphtha (petroleum), light arom. (CAS 64742-95-6)	PEL	10 ppm 400 mg/m3	
stoddard solvent (CAS 8052-41-3)	PEL	100 ppm 2900 mg/m3	
		500 ppm	

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
toluene (CAS 108-88-3)	Ceiling TWA	300 ppm 200 ppm

ACGIH

Components	Type	Value	Form
distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
1,2,4-trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
cumene (CAS 98-82-8)	TWA	50 ppm	
distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
naphthalene (CAS 91-20-3)	TWA	10 ppm	
n-nonane (CAS 111-84-2)	TWA	200 ppm	
stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	
toluene (CAS 108-88-3)	TWA	20 ppm	
trimethylbenzene (CAS 25551-13-7)	TWA	25 ppm	

U.S. - NIOSH

Components	Type	Value	Form
distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist
	TWA	5 mg/m3	Mist

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
1,2,4-trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3 25 ppm	
2-butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
cumene (CAS 98-82-8)	TWA	5 ppm	
		245 mg/m3 50 ppm	
distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	125 ppm 435 mg/m3	
naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	TWA	100 ppm	
		400 mg/m3	
naphthalene (CAS 91-20-3)	STEL	75 mg/m3 15 ppm	
	TWA	50 mg/m3 10 ppm	
n-nonane (CAS 111-84-2)	TWA	1050 mg/m3	
		200 ppm	
solvent naphtha (petroleum), light arom. (CAS 64742-95-6)	TWA	400 mg/m3	
		100 ppm	
stoddard solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3	
	TWA	350 mg/m3	
toluene (CAS 108-88-3)	STEL	560 mg/m3 150 ppm	
	TWA	375 mg/m3 100 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

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

Exposure guidelines

US - California OELs: Skin designation

2-butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
cumene (CAS 98-82-8)	Can be absorbed through the skin.
naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-butoxyethanol (CAS 111-76-2)	Skin designation applies.
cumene (CAS 98-82-8)	Skin designation applies.
toluene (CAS 108-88-3)	Skin designation applies.

US - Tennessee OELs: Skin designation

2-butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
cumene (CAS 98-82-8)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
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US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
cumene (CAS 98-82-8)	Can be absorbed through the skin.

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

2-butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
cumene (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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear protective gloves such as: Nitrile. Neoprene. Polyvinyl chloride (PVC). Butyl rubber.

Other Wear appropriate chemical resistant clothing.

Respiratory protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. 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

Appearance

Physical state Liquid.

Form Liquid.

Color Clear.

Odor Petroleum.

Odor threshold Not available.

pH Not available.

Melting point/freezing point -103 °F (-75 °C) estimated

Initial boiling point and boiling range 318.2 °F (159 °C) estimated

Flash point 117 °F (47.2 °C) Tag Closed Cup

Evaporation rate Slow.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	0.8 % estimated
Flammability limit - upper (%)	10.6 % estimated
Vapor pressure	1.7 hPa estimated
Vapor density	4.7 (air = 1)
Relative density	0.82
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	446 °F (230 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	83 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Aldehydes. Ketones. Organic acids.

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. May cause irritation to the respiratory system.
Skin contact	Causes skin irritation. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components	Species	Test Results
1,2,4-trimethylbenzene (CAS 95-63-6)		
<u>Acute</u> Dermal		
LD50	Rabbit	> 3160 mg/kg
2-butoxyethanol (CAS 111-76-2)		
<u>Acute</u> Oral		
LD50	Rat	1300 mg/kg

Components	Species	Test Results
cumene (CAS 98-82-8)		
<u>Acute</u>		
Oral		
LD50	Rat	1400 mg/kg
distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
ethylbenzene (CAS 100-41-4)		
<u>Acute</u>		
Inhalation		
LC50	Rat	17.2 mg/l, 4 hours
Oral		
LD50	Rat	3500 mg/kg
naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
naphthalene (CAS 91-20-3)		
<u>Acute</u>		
Oral		
LD50	Rat	490 mg/kg
n-nonane (CAS 111-84-2)		
<u>Acute</u>		
Inhalation		
LC50	Rat	3200 ppm, 4 Hours
stoddard solvent (CAS 8052-41-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 3000 mg/kg
Inhalation		
LC50	Rat	> 5500 mg/m ³ , 4 hours
Oral		
LD50	Rat	> 5000 mg/kg

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

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-butoxyethanol (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.
cumene (CAS 98-82-8)	2B Possibly carcinogenic to humans.
distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	3 Not classifiable as to carcinogenicity to humans.
ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
naphthalene (CAS 91-20-3)	2B Possibly carcinogenic to humans.
stoddard solvent (CAS 8052-41-3)	3 Not classifiable as to carcinogenicity to humans.
toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.

xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

cumene (CAS 98-82-8)

Reasonably Anticipated to be a Human Carcinogen.

naphthalene (CAS 91-20-3)

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation. May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	May cause damage to organs (central nervous system) through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death.
Chronic effects	May cause damage to organs through prolonged or repeated exposure. May be harmful if absorbed through skin. Prolonged inhalation may be harmful. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
1,2,4-trimethylbenzene (CAS 95-63-6)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 7.19 - 8.28 mg/l, 96 hours
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 3.6 mg/l, 48 hours
2-butoxyethanol (CAS 111-76-2)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 1550 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) >= 1000 mg/l, 96 hours
cumene (CAS 98-82-8)		
Aquatic		
Crustacea	EC50	Brine shrimp (<i>Artemia sp.</i>) 3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) 2.7 mg/l, 96 hours
distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) > 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 100 mg/l, 96 hours
ethylbenzene (CAS 100-41-4)		
Aquatic		
Fish	LC50	Atlantic silverside (<i>Menidia menidia</i>) 4.4 - 5.7 mg/l, 96 hours
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 2.1 mg/l, 48 hours
naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia pulex</i>) 2.7 - 5.1 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) 8.8 mg/l, 96 hours

Components	Species	Test Results
naphthalene (CAS 91-20-3)		8.8 mg/l, 96 hours
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
solvent naphtha (petroleum), light arom. (CAS 64742-95-6)		1.09 - 3.4 mg/l, 48 hours
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia pulex)
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
toluene (CAS 108-88-3)		8.8 mg/l, 96 hours
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)

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

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-butoxyethanol	0.81, log Pow
cumene	3.66
ethylbenzene	3.15
naphthalene	3.3
n-nonane	5.46
stoddard solvent	3.16 - 7.15
toluene	2.73

Bioconcentration factor (BCF)

ethylbenzene	1
toluene	90

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 of waste from residues / unused products If discarded, this product is considered a RCRA ignitable waste, D001. Collect 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 in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

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	Flammable liquids, n.o.s. (petroleum distillates, 2-butoxyethanol), Limited Quantity
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions B1, B52, IB3, T4, TP1, TP29
Packaging exceptions 150
Packaging non bulk 203
Packaging bulk 242

IATA

UN number UN1993
UN proper shipping name Flammable liquid, n.o.s. (petroleum distillates, 2-butoxyethanol), Limited Quantity
Transport hazard class(es)
 Class 3
 Subsidiary risk -
Packing group III
ERG Code 3L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN1993
UN proper shipping name FLAMMABLE LIQUID, N.O.S. (petroleum distillates, 2-butoxyethanol), Limited Quantity
Transport hazard class(es)
 Class 3
 Subsidiary risk -
Packing group III
Environmental hazards
 Marine pollutant No.
EmS F-E, S-E
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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)

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

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

1,2,4-trimethylbenzene (CAS 95-63-6)
2-butoxyethanol (CAS 111-76-2)
cumene (CAS 98-82-8)
ethylbenzene (CAS 100-41-4)
naphthalene (CAS 91-20-3)

CERCLA Hazardous Substance List (40 CFR 302.4)

2-butoxyethanol (CAS 111-76-2) Listed.
cumene (CAS 98-82-8) Listed.
ethylbenzene (CAS 100-41-4) Listed.
naphthalene (CAS 91-20-3) Listed.
toluene (CAS 108-88-3) Listed.

CERCLA Hazardous Substances: Reportable quantity

cumene (CAS 98-82-8) 5000 LBS
ethylbenzene (CAS 100-41-4) 1000 LBS
naphthalene (CAS 91-20-3) 100 LBS
toluene (CAS 108-88-3) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

toluene (CAS 108-88-3) 6594

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

toluene (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

toluene (CAS 108-88-3) 594

Food and Drug Administration (FDA) Not regulated.**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Section 311/312** Immediate Hazard - Yes**Hazard categories** Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance No**US state regulations****US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

1,2,4-trimethylbenzene (CAS 95-63-6)

2-butoxyethanol (CAS 111-76-2)

cumene (CAS 98-82-8)

distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

ethylbenzene (CAS 100-41-4)

naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

naphthalene (CAS 91-20-3)

solvent naphtha (petroleum), light arom. (CAS 64742-95-6)

stoddard solvent (CAS 8052-41-3)

toluene (CAS 108-88-3)

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

1,2,4-trimethylbenzene (CAS 95-63-6)

2-butoxyethanol (CAS 111-76-2)

cumene (CAS 98-82-8)

ethylbenzene (CAS 100-41-4)

naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

naphthalene (CAS 91-20-3)

n-nonane (CAS 111-84-2)

solvent naphtha (petroleum), light arom. (CAS 64742-95-6)

stoddard solvent (CAS 8052-41-3)

toluene (CAS 108-88-3)

trimethylbenzene (CAS 25551-13-7)

US. Massachusetts RTK - Substance List

1,2,4-trimethylbenzene (CAS 95-63-6)

2-butoxyethanol (CAS 111-76-2)

cumene (CAS 98-82-8)

distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

ethylbenzene (CAS 100-41-4)

naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

naphthalene (CAS 91-20-3)

n-nonane (CAS 111-84-2)

solvent naphtha (petroleum), light arom. (CAS 64742-95-6)

stoddard solvent (CAS 8052-41-3)

toluene (CAS 108-88-3)

trimethylbenzene (CAS 25551-13-7)

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

1,2,4-trimethylbenzene (CAS 95-63-6)
2-butoxyethanol (CAS 111-76-2)
cumene (CAS 98-82-8)
distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)
ethylbenzene (CAS 100-41-4)
naphthalene (CAS 91-20-3)
n-nonane (CAS 111-84-2)
solvent naphtha (petroleum), light arom. (CAS 64742-95-6)
stoddard solvent (CAS 8052-41-3)
toluene (CAS 108-88-3)
trimethylbenzene (CAS 25551-13-7)

US. Rhode Island RTK

1,2,4-trimethylbenzene (CAS 95-63-6)
2-butoxyethanol (CAS 111-76-2)
cumene (CAS 98-82-8)
distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)
ethylbenzene (CAS 100-41-4)
naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)
naphthalene (CAS 91-20-3)
n-nonane (CAS 111-84-2)
solvent naphtha (petroleum), light arom. (CAS 64742-95-6)
stoddard solvent (CAS 8052-41-3)
toluene (CAS 108-88-3)
trimethylbenzene (CAS 25551-13-7)

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)	Listed: February 27, 1987
cumene (CAS 98-82-8)	Listed: April 6, 2010
ethylbenzene (CAS 100-41-4)	Listed: June 11, 2004
naphthalene (CAS 91-20-3)	Listed: April 19, 2002

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

benzene (CAS 71-43-2)	Listed: December 26, 1997
toluene (CAS 108-88-3)	Listed: January 1, 1991

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

benzene (CAS 71-43-2)	Listed: December 26, 1997
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Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s)) 100 %

Consumer products (40 CFR 59, Subpt. C) Not regulated

State

Consumer products Not regulated

VOC content (CA) 50 %

VOC content (OTC) 50 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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).

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

Issue date	05-28-2015
Revision date	09-11-2017
Prepared by	Allison Yoon
Version #	02
Further information	CRC # 864/1002839
HMIS® ratings	Health: 2* Flammability: 2 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 2 Instability: 0

NFPA ratings



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Revision Information

This document has undergone significant changes and should be reviewed in its entirety.