

This SDS is for FTR-5, FTR-12 & FTR-25. It contains a SDS for each of the components that make up the kit - 1850 (or 1852), 1920 & 1840.

Safety Data Sheet

Issue Date: 20-Jan-2011

Revision Date: 03-Dec-2014

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Fuel Tank Sealer

Other means of identification

SDS # 1850, 1852

Recommended use of the chemical and restrictions on use

Recommended Use Coating.

Details of the supplier of the safety data sheet

Supplier Address

International Epoxies & Sealers
30241 Commerce Drive
San Antonio, FL 33576

Emergency Telephone Number

Company Phone Number 1-800-451-7206
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Opaque, Gray Liquid

Physical State Liquid

Odor Paint like

Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable Liquids	Category 4

Hazards Not Otherwise Classified

(HNOC) May be harmful if swallowed
May be harmful in contact with skin

Signal Word

Danger

Hazard Statements

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause cancer
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Combustible liquid

**Precautionary Statements – Prevention**

Obtain special instruction before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Do not breath dust/fume/gas/mist/vapors/spray
Wear respiratory protection
Wash face, hands and any exposed skin thoroughly after handling
In case of inadequate ventilation, wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Keep away from heat/sparks/open flames/hot surfaces. – No smoking
Keep cool
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements – Prevention

If exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
If eye irritation persists: get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do not induce vomiting
IN CASE OF FIRE: Use CO2, dry chemical or foam for extinction

Precautionary Statements – Storage

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

Precautionary Statements – Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Naphtha (petroleum), heavy aromatic	64742-94-5	20-50
4,4- methylenediphenyl diisocyanate (MDI)	101-68-8	5-15
Methylenediphenyl diisocyanate	26447-40-5	1-7
Naphthalene	91-20-3	1-5
Carbon Black	1333-86-4	1-5
Pseudocumene	95-63-6	<1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	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.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May be fatal if swallowed and enters airways. May be harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause allergic skin reaction. May cause cancer. May cause damage to organs through prolonged or repeated exposure.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO₂). Foam. Water spray (fog).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Flammable Liquid. Vapors may spread long distances and ignite. Vapors or mist may be a fire and explosion hazard when exposed to high temperature or ignition. Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO₂ formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, sincere action between water and hot diisocyanate can be vigorous. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback. Vapors or fumes may form an explosive mixture with air.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment as required. Ventilate affected area.

Other Information

International Epoxies & Sealers requires that INFOTRAC be immediately notified (800-535-5053) when this product is unintentionally released from its container during its course of distribution, regardless of the amount released. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person having knowledge of the release.

Environmental Precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Prevent runoff to storm sewers and ditches leading to natural waterways.

Methods for Clean-Up

Absorb with inert material or sweep up, and then place in suitable container for chemical waste. Neutralization solutions:

- (1) Colorimetric Laboratories Inc. (CLI) decontamination solution.
- (2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10) and 5% npropanol.
- (3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10).
- (4) A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing and eye/face protection. Wear respiratory protection. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep cool.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, well-ventilated area, away from ignition sources and incompatible materials. Keep container tightly Closed. Store locked up. Storage temperature minimum: 45°F (7°C), maximum 95°F (35°C). 12 months shelf life When stored under these conditions.

Incompatible Materials Water. Amines. Strong bases. Strong acids. Alcohols. Copper Alloys. Oxidizers.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate (vacated) Ceiling: 0.2 mg/m ³ regulated under Methylene bisphenyl isocyanate Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	IDLH: 75 mg/m ³ Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m ³ 10 min TWA: 0.005 ppm TWA: 0.05 mg/m ³
Methylenediphenyl diisocyanate 26447-40-5	-	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	-
Carbon Black 1333-86-4	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Naphthalene 91-20-3	STEL: 15 ppm TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³
Pseudocumene 95-63-6	-	-	TWA: 25 ppm TWA: 125 mg/m ³

Other Information

All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. Applicants with a history of prior isocyanate sensitization should be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted.

Appropriate engineering controls**Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

When directly handling liquid product, eye protection is required. Examples of eye protection include a chemical safety goggle, or chemical safety goggle in combination with a full face shield when there is a greater risk of splash.

Skin and Body Protection

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact., Animal tests and other research indicate that skin contact with **MDI** can play a role in causing isocyanate sensitization and respiratory reaction., This data reinforces the need to prevent direct skin contact with isocyanates.

Respiratory Protection

Airborne MDI concentrations greater than the ACGIH TLV-TWA (TLV) or OSHA PEL-C (PEL) can occur in inadequately ventilated environments when MDI is sprayed, aerosolized, or heated. In such cases, respiratory protection must be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134). The type of respiratory protection available includes (1) an atmosphere supplying respirator such as a self-contained breathing apparatus (SCBA) or a supplied air respirator (SAR) in the positive pressure or continuous flow mode, or (2) an air-purifying respirator (APR). If an APR is selected then (a) the cartridge must be equipped with an end-of-service life indicator (ESLI) certified by NIOSH, or(b) a change out schedule, based on objective information or data that will ensure that the cartridges are changed out before the end of their service life, must be developed and implemented. The basis for the change out schedule must be described in the written respirator program. Further, if an APR is selected, the airborne diisocyanate concentration must be no greater than 10 times the TLV or PEL. There commended APR cartridge is an organic vapor/particulate filter combination cartridge (0V/P100).

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<p>Physical State Appearance Color</p>	<p>Liquid Opaque, Gray Liquid Opaque, Gray</p>	<p>Odor Odor Threshold</p>	<p>Paint like Not determined</p>
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Remarks • Method

<u>Property</u>	<u>Values</u>
pH	Not determined
Melting Point/Freezing Point	Not determined
Boiling Point/Boiling Range	> 179 °C / 354 °F
Flash Point	63 °C / 145 °F
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Liquid- Not Applicable
Upper Flammability Limits	5.9
Lower Flammability Limit	0.8
Vapor Pressure	0.78 kPa (0.59mm Hg)
Vapor Density	4.7 at 101kPa for solvent
Specific Gravity	Not determined
Water Solubility	Negligible
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	>229 °C / 445 °F
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined
Additional Information VOC Content	% Volatile (By Weight): 27
Density	2.30 lbs/gal, 275 g/L 1.01-1.03

@20°C
(Air=1)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Contact with moisture, other materials that react with isocyanates, or excessive temperatures may cause polymerization.

Conditions to Avoid

Keep out of reach of children. Avoid moisture. Avoid elevated temperatures. Heat, flames and sparks.

Incompatible Materials

Water. Amines. Strong bases. Strong acids. Alcohols. Copper alloys. Oxidizers.

Hazardous Decomposition Products

By Fire and High Heat: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke., Hydrogen cyanide, Isocyanate, Isocyanic Acid, Other undetermined compounds.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information****Eye Contact**

Causes serious eye irritation.

Skin Contact

Causes skin irritation. May be harmful in contact with skin. May cause an allergic skin reaction.

Inhalation

Harmful if inhaled.

Ingestion

May be harmful if swallowed. May be fatal if swallowed and enters airways.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Naphtha (petroleum), heavy aromatic 64742-94-5	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 590 mg/m ³ (Rat) 4 h
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	= 9200 mg/kg (Rat)	-	-
Methylenediphenyl diisocyanate isomers (Polymeric MDI) 9016-87-9	= 49 g/kg (Rat)	> 9400 mg/kg (Rabbit)	= 490 mg/m ³ (Rat) 4 h
Methylenediphenyl diisocyanate 26447-40-5	> 7400 mg/kg (Rat)	> 6200 mg/kg (Rabbit)	= 0.369 mg/L (Rat) 4 h
Propylene glycol monomethyl ether acetate 108-65-6	= 8532 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Naphthalene 91-20-3	= 480 mg/kg (Rat)	> 20 g/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h
Pseudocumene 95-63-6	= 3400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8		Group 3		
Methylenediphenyl diisocyanate isomers (Polymeric MDI) 9016-87-9		Group 3		
Methylenediphenyl diisocyanate 26447-40-5		Group 3		
Carbon Black 1333-86-4	A3	Group 2B		X
Naphthalene 91-20-3		Group 2B	Reasonably Anticipated	X

Legend

- ACGIH (American Conference of Governmental Industrial Hygienists)**
- A3 - Animal Carcinogen
- IARC (International Agency for Research on Cancer)**
- Group 2B - Possibly Carcinogenic to Humans
- Group 3 IARC components are not classifiable as human carcinogens"
- NTP (National Toxicology Program)**
- Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)**
- X - Present

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Naphtha (petroleum), heavy aromatic 64742-94-5	2.5: 72 h Skeletonema costatum mg/L EC50	19: 96 h Pimephales promelas mg/L LC50 static 2.34: 96 h Oncorhynchus mykiss mg/L LC50 1740: 96 h Lepomis macrochirus mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 41: 96 h Pimephales promelas mg/L LC50		0.95: 48 h Daphnia magna mg/L EC50
Methylenediphenyl diisocyanate 26447-40-5	3230: 96 h Skeletonema costatum mg/L EC50			1000: 24 h Daphnia magna mg/L EC50
Propylene glycol monomethyl ether acetate 108-65-6		161: 96 h Pimephales promelas mg/L LC50 static		500: 48 h Daphnia magna mg/L EC50
Carbon Black 1333-86-4				5600: 24 h Daphnia magna mg/L EC50
Naphthalene 91-20-3		5.74 - 6.44: 96 h Pimephales promelas mg/L LC50 flow-through 1.6: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.91 - 2.82: 96 h Oncorhynchus mykiss mg/L LC50 static 1.99: 96 h Pimephales promelas mg/L LC50 static 31.0265: 96 h Lepomis macrochirus mg/L LC50 static		2.16: 48 h Daphnia magna mg/L LC50 1.96: 48 h Daphnia magna mg/L EC50 Flow through 1.09 - 3.4: 48 h Daphnia magna mg/L EC50 Static
Pseudocumene 95-63-6		7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through		6.14: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Naphtha (petroleum), heavy aromatic 64742-94-5	6.1
Methylenediphenyl diisocyanate 26447-40-5	4.5
Propylene glycol monomethyl ether acetate 108-65-6	0.43
Naphthalene 91-20-3	3.3
Pseudocumene 95-63-6	3.63

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations. Incineration is the preferred method of disposal.

Contaminated Packaging Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Naphthalene 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145		U165

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene 91-20-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Naphthalene 91-20-3	Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated
Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Naphtha (petroleum), heavy aromatic	Present	X		Present		Present	X	Present	X	X
4,4- methylenediphenyl diisocyanate (MDI)	Present	X		Present		Present	X	Present	X	X
Methylenediphenyl diisocyanate	Present	X		Present		Present	X	Present	X	X
Naphthalene	Present	X		Present		Present	X	Present	X	X
Carbon Black	Present	X		Present	Present	Present	X	Present	X	X
Pseudocumene	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSUNDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Naphthalene 91-20-3	100 lb 1 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
4,4- methylenediphenyl diisocyanate (MDI) - 101-68-8	101-68-8	5-15	1.0
Methylenediphenyl diisocyanate isomers (Polymeric MDI) - 9016-87-9	9016-87-9	3-10	1.0
Methylenediphenyl diisocyanate - 26447-40-5	26447-40-5	1-7	1.0
Naphthalene - 91-20-3	91-20-3	1-5	0.1
Pseudocumene - 95-63-6	95-63-6	<1	1.0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Naphthalene	100 lb	X	X	X

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Carbon Black - 1333-86-4	Carcinogen
Naphthalene - 91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	X		X
Methylenediphenyl diisocyanate isomers (Polymeric MDI) 9016-87-9	X		
Methylenediphenyl diisocyanate 26447-40-5	X	X	
Carbon Black 1333-86-4	X	X	X
Naphthalene 91-20-3	X	X	X
Pseudocumene 95-63-6	X	X	X

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	2	1	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	2	1	Not determined

Issue Date: 20-Jan-2011
 Revision Date: 03-Dec-2014
 Revision Note: New format

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.

End of Safety Data Sheet

Safety Data Sheet

Issue Date: 08-Apr-2009

Revision Date: 28-Mar-2014

Version 1

1. IDENTIFICATION

Product Identifier

Product Name 1840 Rust-Raider

Other means of identification

SDS # IES-FO1840

Product Code 1840

UN/ID No UN1805

Recommended use of the chemical and restrictions on use

Recommended Use Rust Converter/Metal Etch.

Details of the supplier of the safety data sheet

Supplier Address

International Epoxies & Sealers
30241 Commerce Drive
San Antonio, FL 33576

Emergency Telephone Number

Company Phone Number 1-800-451-7206

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Green liquid

Physical State Liquid

Odor Pungent

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Signal Word

Danger

Hazard Statements

Harmful if inhaled
Causes severe skin burns and eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child

**Precautionary Statements - Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response

Immediately call a poison center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: rinse mouth. Do NOT induce vomiting
Immediately call a poison center or doctor/physician

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Non-hazardous & other ingredients	Proprietary	Balance
Phosphoric acid	7664-38-2	34
Sodium bichromate	10588-01-9	<1.0

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Trace impurities and additional material names not listed above may also appear in other sections of this SDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Flush eyes with water for at least 15 minutes. Get immediate medical attention.
Skin Contact	Remove contaminated clothing and shoes. Wash exposed areas with soap and water. Call a physician if irritation persists.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.
Ingestion	Do not induce vomiting. Give 1 – 2 glasses of water to dilute. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects

Symptoms	<p>EYES: Contact with the eyes may cause burns, tearing, and blindness.</p> <p>SKIN: Contact with the skin can cause severe irritation or burns. This material causes destruction of body tissue.</p> <p>INGESTION: Ingestion may cause severe irritation or burns of the mucous membranes of the mouth, throat, esophagus, and stomach. Ingestion can cause severe abdominal distress and may be fatal.</p> <p>INHALATION: Inhalation may result in respiratory irritation and coughing. Inhalation of dusts or mists can damage upper respiratory tract and lung tissue depending on the extent of exposure.</p>
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	<p>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure to this product.</p> <p>Aspiration of this product during emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.</p>
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use fog nozzles if water is used.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Water spray may be ineffective on fire but can be used to protect fire fighters and cool closed containers. Closed containers may build up pressure and rupture if exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Contain and absorb with suitable absorbent for disposal.

Methods for Clean-Up SMALL SPILLS: Neutralize with sodium bicarbonate or equal parts of soda ash slaked lime. Contain spill and ventilate area. Sweep up and containerize for disposal.

LARGE SPILLS: Contain spill and ventilate area. Permit only trained personnel wearing full protective equipment to enter the spill area. Contain the spill in a waste container or remove with a vacuum truck. Prevent spill from entering natural watercourses. Spills and releases may have to be reported to Federal and/or local authorities. See section 15. Spills/releases resulting in the loss of this product at or above its RQ requires immediate notification to the National Response Center (1-800-424-8802) and to your Local Emergency Planning Committee.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes or clothing. Do NOT take internally.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep container closed when not in use. This material should be stored at moderate temperatures. Store locked up. The empty container is hazardous.

Incompatible Materials Combustible materials, bases, metals, oxidizing materials and Alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	STEL: 3 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ (vacated) STEL: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³
Sodium bichromate 10588-01-9	TWA: 0.05 mg/m ³ Cr	TWA: 5 µg/m ³ (vacated) Ceiling: 0.1 mg/m ³ Ceiling: 0.1 mg/m ³ CrO ₃ applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect	IDLH: 15 mg/m ³ Cr(VI) TWA: 0.0002 mg/m ³ Cr
Lead 7439-92-1	TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ Pb	TWA: 50 µg/m ³ TWA: 50 µg/m ³ Pb	IDLH: 100 mg/m ³ IDLH: 100 mg/m ³ Pb TWA: 0.050 mg/m ³ TWA: 0.050 mg/m ³ Pb
Arsenic 7440-38-2	TWA: 0.01 mg/m ³ TWA: 0.01 mg/m ³ As	TWA: 10 µg/m ³ As (vacated) TWA: 0.5 mg/m ³	IDLH: 5 mg/m ³ IDLH: 5 mg/m ³ As Ceiling: 0.002 mg/m ³ 15 min Ceiling: 0.002 mg/m ³ As 15 min
Cadmium 7440-43-9	TWA: 0.01 mg/m ³ TWA: 0.002 mg/m ³ respirable fraction TWA: 0.01 mg/m ³ Cd TWA: 0.002 mg/m ³ Cd respirable fraction	TWA: 0.1 mg/m ³ fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 0.2 mg/m ³ dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 5 µg/m ³ (vacated) STEL: 0.3 ppm fume Ceiling: 0.3 mg/m ³ fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect Ceiling: 0.6 mg/m ³ dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect	IDLH: 9 mg/m ³ dust IDLH: 9 mg/m ³ Cd dust and fume

Appropriate engineering controls

Engineering Controls

Showers
Eyewash stations
Ventilation systems. Use a ventilation system to maintain atmospheric concentrations below published exposure limits. Corrosion-proof fans should be used in a mechanical-type ventilation system.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear chemical safety goggles.

Skin and Body Protection

Wear protective gloves made of neoprene or rubber.

Respiratory Protection

If engineering controls do not maintain airborne concentrations below recommended limits, wear a NIOSH-approved respirator for dusts and mists.

General Hygiene Considerations Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Pungent
Appearance	Green liquid	Odor Threshold	Not determined
Color	Green		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	< 2.0	@ 23°C
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	> 101.66 °C / > 215	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.19-1.21	
Water Solubility	Soluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization	Hazardous polymerization does not occur.
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Conditions to Avoid

Incompatible materials, ignition sources and excessive heat.

Incompatible Materials

Combustible materials, bases, metals, oxidizing materials and Alkalis.

Hazardous Decomposition Products

Oxides of phosphorous.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns. May cause an allergic skin reaction.
Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Ingestion	May be harmful if swallowed. Ingestion may cause irritation to mucous membranes.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2730 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h
Sodium bichromate 10588-01-9	= 50 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	= 0.124 mg/L (Rat) 4 h
Arsenic 7440-38-2	= 763 mg/kg (Rat)	-	-
Cadmium 7440-43-9	= 2330 mg/kg (Rat)	-	= 8 mg/L (Rabbit) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	May cause genetic defects.
Carcinogenicity	May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium bichromate 10588-01-9	A1	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity May damage fertility or the unborn child.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phosphoric acid 7664-38-2		3 - 3.5: 96 h <i>Gambusia affinis</i> mg/L LC50		4.6: 12 h <i>Daphnia magna</i> mg/L EC50
Sodium bichromate 10588-01-9		33.2: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 69: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 213: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static		0.098 - 0.129: 48 h <i>Daphnia magna</i> mg/L EC50
Lead 7439-92-1		0.44: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static 1.17: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 1.32: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static		600: 48 h water flea µg/L EC50
Cadmium 7440-43-9		0.003: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 0.006: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 0.002: 96 h <i>Cyprinus carpio</i> mg/L LC50 4.26: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static 0.24: 96 h <i>Cyprinus carpio</i> mg/L LC50 static 21.1: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 0.016: 96 h <i>Oryzias latipes</i> mg/L LC50 0.0004 - 0.003: 96 h <i>Pimephales promelas</i> mg/L LC50		0.0244: 48 h <i>Daphnia magna</i> mg/L EC50 Static

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

D002

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Lead 7439-92-1		Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K069, K086, K100, K176	5.0 mg/L regulatory level	
Arsenic 7440-38-2		Included in waste streams: F032, F034, F035, F039, K031, K060, K084, K101, K102, K161, K171, K172, K176	5.0 mg/L regulatory level	
Cadmium 7440-43-9		Included in waste streams: F006, F039, K061, K069, K100	1.0 mg/L regulatory level	

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Phosphoric acid 7664-38-2	Corrosive
Sodium bichromate 10588-01-9	Toxic Corrosive Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN1805
Proper Shipping Name Phosphoric acid solution
Hazard Class 8
Packing Group III

IATA

UN/ID No UN1805
Proper Shipping Name Phosphoric acid solution
Hazard Class 8
Packing Group III

IMDG

Proper Shipping Name Phosphoric acid solution
Hazard Class 8
Packing Group III
Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric acid 7664-38-2	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Sodium bichromate 10588-01-9	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Sodium bichromate - 10588-01-9	10588-01-9	<1.0	0.1
Lead - 7439-92-1	7439-92-1	0.001	0.1
Arsenic - 7440-38-2	7440-38-2	0.001	0.1
Cadmium - 7440-43-9	7440-43-9	0.001	0.1

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2 (34)	5000 lb			X
Sodium bichromate 10588-01-9 (<1.0)	10 lb	X		X

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Sodium bichromate - 10588-01-9	Carcinogen Developmental Female Reproductive Male Reproductive
Lead - 7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive
Arsenic - 7440-38-2	Carcinogen

Cadmium - 7440-43-9	Carcinogen Developmental Male Reproductive
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U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid 7664-38-2	X	X	X
Sodium bichromate 10588-01-9	X	X	X
Lead 7439-92-1	X	X	X
Arsenic 7440-38-2	X	X	X
Cadmium 7440-43-9	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards Not determined	Flammability Not determined	Physical Hazards Not determined	Personal Protection Not determined

Issue Date: 08-Apr-2009
 Revision Date: 28-Mar-2014
 Revision Note: New format

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.

End of Safety Data Sheet

OSHA Hazard Communication Standard 29 CFR 1900.1200

Prepared to GHS Rev. 4

**SAFETY
DATA SHEET**

SECTION 1- CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: All Purpose Cleaner & Degreaser -Purple

Product Use: Multi Surface Cleaner and Degreaser

Use Restrictions: For Industrial and Professional Use Only

Manufacturer: International Epoxies & Sealers
30241 Commerce Drive
San Antonio, FL 33576
Phone: 352-588-2400

Transportation Emergency: 800-535-5053 (INFOTRAC)

SECTION 2- HAZARDS IDENTIFICATION

1) GHS Classification of the substance or mixture:

Acute toxicity, Inhalation- Category 4

Acute toxicity, Dermal- Category 5

Acute toxicity, Oral- Category 4

2) Label Elements:



Signal Word: Warning

Hazard Statements:

H303- May be harmful if swallowed

H313- May be harmful in contact with skin

H316- Causes mild skin irritation

H320- Causes eye irritation

H332- Harmful if inhaled

H335- May cause respiratory irritation

Precautionary Statements:

P102- Keep out of reach of children

P234- Keep only in original container

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P260- Do not breathe fume/mist/vapors/spray

P262- Do not get in eyes, on skin, or on clothing

P264- Wash skin thoroughly after handling

P280- Wear chemical resistant protective gloves and splash proof eyewear

Response Statements:

P303+P353+P361+P363- IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

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

P304+P340+ IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P330+P331- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage and Disposal Statements:

P403- Store in a well-ventilated place.

P405- Store locked up.

P501- Dispose of contents/container in accordance with local/regional/national regulation.

Other Hazards:

OSHA HCS 2012- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

HMIS Classification:

Health Hazard- 1

Chronic Health Hazard- 0

Flammability- 0

Physical Hazards- 2c

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical/Common Name</u>	<u>CAS #</u>	<u>PERCENTAGE</u>	<u>HAZARDOUS</u>
2-Butoxy Ethanol	111-76-2	5-10%	Yes

SECTION 4- FIRST AID MEASURES

Inhalation: If affected, remove individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet and obtain medical attention.

Skin: Immediately flush affected area with lots of water for at least 2 minutes. Remove contaminated clothing and wash before reuse.

Eyes: Flush immediately with large quantities of running water for at least 5 minutes. Obtain medical attention.

Ingestion: Immediately give a lot of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SECTION 5-FIRE FIGHTING MEASURES

Flash Point: None to boiling

Autoignition Temperature: Non combustible

Lower Explosive Limit: N/A **Upper Explosive Limit:** N/A

General Hazards-

Fire: Product is not flammable or combustible.

Suitable Extinguishing Media: As required to fight surrounding fire.

Fire Fighting Procedures: Wear self contained breathing apparatus for fire fighting if necessary.

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Unusual Fire and Explosion Hazards: Non combustible

Hazardous Combustion Products: None known

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Environmental precautions: Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up: Stop leak if you can do it without risk.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to appropriate waste disposal container.

SECTION 7- HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes by wearing protective clothing and equipment. Avoid inhalation of vapor or mist. Use only with adequate ventilation.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place. Store away from acids, acidic materials and oxidizers.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
2-Butoxy Ethanol	111-76-2	25 ppm	50 ppm

Personal Protective Equipment-

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Hand protection: Wear protective gloves made from the following materials- nitrile rubber or polyethylene. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Wear safety glasses with side shields.

Skin and Body Protection: Where extensive dermal exposure may be expected, a chemical apron is recommended.

Hygienic Practices: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

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Products Description:	Clear purple liquid with characteristic odor
Solubility in Water:	Complete
Boiling Point:	212°F
Specific Gravity (WATER=1):	1.01
Vapor Pressure (mmHg):	N/D
Vapor Density (AIR=1):	N/D
Percent Volatile by Volume (%):	> 80.00
Evaporation Rate (WATER=1):	Approaches water
Flash Point (C.O.C.):	None
pH (1% w/w in water):	> 12.5
Biodegradable:	100% before mixing with soil

SECTION 10- STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions.

Material to Avoid: Avoid contact with acids and strong oxidizers such as permanganate, chlorine, ect.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None

SECTION 11- TOXICOLOGICAL INFORMATION

2-Butoxyethanol-

Acute oral toxicity- LD50 Oral: 1,414 mg/kg

Species: guinea pig

Remarks: Ingestion may cause weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

Acute inhalation toxicity- LC50: ~ 932 ppm

Exposure time: 4 HOURS

Species: guinea pig

Remarks: Exposure to vapor may cause irritation of the eyes, nose, and respiratory tract. May cause nausea. May cause headaches. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

Acute dermal toxicity- LD50: > 2,000 mg/kg

Species: guinea pig

Remarks: Minimal hazard by skin contact with liquid or vapor. This material may be absorbed through the skin. High dermal doses (most likely achieved from exposure to undiluted liquid) may cause weakness, headache and nausea. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

SECTION 12- ECOLOGICAL INFORMATION

Toxicity: Material data lacking.

Persistence and degradability: Material data lacking.

Bioaccumulative potential: Material data lacking.

Mobility in Soil: Material data lacking.

Other adverse effects: No studies have been found.

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Other Information: No data is available on the adverse effects of this material on the environment.

SECTION 13- DISPOSAL CONSIDERATIONS

Further information: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations.

SECTION 14- TRANSPORT INFORMATION

Transport in accordance with all federal, state and local regulations.

DOT- NON HAZARDOUS, not regulated

SECTION 15- REGULATORY INFORMATION

No data available

SECTION 16- OTHER INFORMATION

References: Not available

Other Special Considerations: Not available

Created: 07/22/2014

Revised From: 10/30/2012

DISCLAIMER:

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