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## SAFETY DATA SHEET

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### Section 1: IDENTIFICATION

**Product Name:** Hydro-Vator  
**Product Code:** B11761  
**MSDS Date:** February 2, 2015

Hydro-Vator Division  
2101 Clifton Ave  
St. Louis, MO 63139

**General Information:** 314-644-1300  
**CHEMTREC:** 800-424-9300

### Section 2: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

**Potential Health Effects:** See Section 11 for more information

#### GHS Classification:

Flammable liquids (Category 3)  
Acute toxicity, Inhalation (Category 4)  
Acute toxicity, Dermal (Category 4)  
Eye irritation (Category 2A)  
Reproductive toxicity (Category 1B)  
Carcinogenicity (Category 2)

#### GHS Labeling



**Symbol:**

**Signal Word:** Warning

#### Hazard Statements:

Flammable liquid and vapor  
Harmful if inhaled.  
Harmful in contact with skin.  
Causes serious eye irritation  
May damage fertility or the unborn child  
Suspected of causing cancer

#### Precautionary Statements:

##### **Prevention:**

Avoid breathing mist/vapors/spray.  
Do not handle until all safety precautions have been read and understood.  
Ground/bond container and receiving equipment.

Keep away from heat/sparks/open flames/hot surfaces-no smoking.  
 Keep container tightly closed.  
 Obtain special instructions before use.  
 Take precautionary measure against static discharge.  
 Use only non-sparking tools.  
 Use only outdoors or in a well-ventilated area.  
 Wash thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

Call a poison center/doctor if you feel unwell.  
 If exposed or concerned: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.  
 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
 Take off contaminated clothing and wash it before reuse.

**Storage:**

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

**Disposal:**

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

This product does contain carcinogens or potential carcinogens as listed.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Environmental Effects:** See Section 12 for more information.

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	2-Butoxyethanol 111-76-2	1-35	50 ppm	Not avail	20 ppm	Not avail
2	Dimethyl Succinate 106-65-0	1-35	Not avail	Not avail	Not avail	Not avail
3	Dimethyl Adipate 627-93-0	1-35	Not avail	Not avail	Not avail	Not avail
4	Normal Butyl Acetate 123-86-4	1-35	150 ppm	200 ppm	150 ppm	200 ppm
5	2-Ethoxyethyl acetate 111-15-9	1-35	5 ppm	Not avail	5 ppm	Not avail
6	1,2-Dimethyl-4-ethylbenzene 934-80-5	1-35	Not avail	Not avail	Not avail	Not avail
7	1,2,3,5-tetramethylbenzene 527-53-7	1-35	Not avail	Not avail	Not avail	Not avail
8	1,2,4,5-tetramethylbenzene 95-93-2	1-35	Not avail	Not avail	Not avail	Not avail
9	1,3-Dimethyl-4-ethylbenzene	1-35	Not	Not	Not	Not

	874-41-9		avail	avail	avail	avail
10	1,3-Dimethyl-5-ethylbenzene 934-74-7	1-35	Not avail	Not avail	Not avail	Not avail
11	1,4-Dimethyl-2-ethylbenzene 1758-88-9	1-35	Not avail	Not avail	Not avail	Not avail
12	1-methyl-3-propylbenzene 1074-43-7	1-35	Not avail	Not avail	Not avail	Not avail
13	Naphthalene 91-20-3	1-35	10 ppm	15 ppm	10 ppm	15 ppm
14	1,4-diethylbenzene 105-05-5	1-35	Not avail	Not avail	Not avail	Not avail
15	1,2,3-trimethylbenzene 526-73-8	1-35	Not avail	Not avail	Not avail	Not avail
16	1-methyl-4-propylbenzene 1074-55-1	1-35	Not avail	Not avail	Not avail	Not avail
17	Di-n-butyl Phthalate 84-74-2	1-35	5 mg/m3	Not avail	5 mg/m3	Not avail

#### Section 4: FIRST AID MEASURES

##### Emergency first aid procedures by route of exposure:

- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do NOT induce vomiting. Contact local poison control center or physician immediately. Get medical attention immediately.
- Skin:** Wash off with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
- Eyes:** If contact with eyes, check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

#### Section 5: FIRE FIGHTING MEASURES

**Flash Point (2-Ethoxyethyl acetate):** CLOSED CUP: 54C (129F)  
**Auto-ignition Temperature (2-Ethoxyethyl acetate):** 379C (714F)  
**Lower Explosion Limit (2-Ethoxyethyl acetate):** 1.7% (V)  
**Upper Explosion Limit (2-Ethoxyethyl acetate):** 13.0% (V)

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Products of Combustion:** Upon decomposition this product may emit carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

##### Fire Fighting Equipment/Instructions:

Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

HAZARD	HMIS	NFPA
Toxicity	2	2

Fire	2	2
Reactivity	0	0

## Section 6: ACCIDENTAL RELEASE MEASURES

### Personal Protection:

For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Environmental Precautions:** Prevent discharge to open bodies of water, municipal sewers, and watercourses.

**Method for Containment:** Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

**Methods for Clean-up:** Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container.

## Section 7: HANDLING AND STORAGE

### Handling:

Avoid inhalation of vapor or mist. Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge.

### Storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering Controls:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Ensure that eyewash station and safety shower is proximal to the work-station location.

### Personal Protective Equipment (PPE)

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eye/Face Protection:** Face shield and safety goggles.

**Hand Protection:** Chemical gloves

**Body:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

See section 3 for exposure limits.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance, State</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Aromatic
<b>pH (1%soln/water)</b>	Not Available
<b>Vapor Density</b>	Not Available
<b>Boiling Point (2-Ethoxyethyl acetate)</b>	156°C (313°F) - lit
<b>Vapor Pressure (2-Ethoxyethyl acetate)</b>	3 hPa (2 mmHg) at 20°C (68°F)
<b>Melting Point/freezing point (2-Ethoxyethyl acetate)</b>	-61°C (-78°F)
<b>Flash Point</b> (See Section 5)	
<b>Flammability Properties</b> (See section 5)	
<b>Solubility</b> (in water)	Not Available
<b>Specific Gravity (2-Ethoxyethyl acetate)</b>	0.975 g/mL at 25C (77°F)
<b>Evaporation Rate</b>	Not Available
<b>Octanol/Water partition coefficient (Kow)</b>	Not Available
<b>Auto-ignition temperature:</b> (See section 5)	
<b>Decomposition temperature:</b>	Not Available
<b>Viscosity</b>	Not Available
<b>VOC:</b>	75%
<b>LVP:</b>	25%

**Section 10: STABILITY AND REACTIVITY**

**Stability:** This material is considered stable at ambient temperatures 70°C (21°C).

**Condition to Avoid:** Flames, sparks, electrostatic discharge, heat and other ignition sources, moisture.

**Incompatible Materials:** Strong oxidizing materials, Nitrates, Strong acids, Strong bases

**Hazardous Decomposition:** Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

**Hazardous Reactions:** This product will not undergo polymerization.

**Section 11: TOXICOLOGICAL INFORMATION****ACUTE EFFECTS:****Analysis LD50**

2-Butoxyethanol (CAS # 111-76-2)  
LD50 Dermal Rabbit 4.0 g/kg  
LC-50 Inhalation Sat Air (18 ppm) – no deaths (Rat) 7 hours  
LD50 Oral Rat 5.1 g/kg

Dimethyl Succinate (106-65-0)  
Oral LD50 Rat:>5g/kg  
Dermal LD50 Rat: 1920 mg/kg

Dimethyl Adipate (627-93-0)  
Oral LD50 Rat: 1920 mg/kg

Dimethyl Glutarate (1119-40-0)  
Inhalation LC50 Rat: 6.1 mg/L/4H  
Oral LD50 Rat: 8191 mg/kg

Normal Butyl Acetate (23-86-4)  
Inhalation, mouse: LC50 = 6gm/m<sup>3</sup>/2H  
Inhalation, rat: LC50 = 2000 ppm/4H  
Oral, mouse: LD50 = 7060 mg/kg  
Oral, rabbit LD50 = 3200 mg/kg  
Oral rat LD50 = 10768 mg/kg  
Skin rabbit LD50 = 17,600 mg/kg

(2-Ethoxyethyl acetate)  
LD50 Oral – rat 2,700 mg/kg  
LC50 Inhalation – rat – 8h – 12,100 mg/m<sup>3</sup>

Di-n-butyl Phthalate 84-74-2  
LD50 Oral Rat 8000 mg/kg  
LC50 Inhalation Rat 4250 mg/m<sup>3</sup>  
LD50 Skin Rabbit: >20 mL/kg

#### CHRONIC EFFECTS:

Solvent Naphtha (petroleum) (CAS # 64742-94-5)

**Carcinogenic Effects:** 2B – Possible for humans by IARC. 2 – Reasonable anticipated to be a human carcinogen) by NTP. Classified A4 (Not classifiable for humans or animals) by ACGIH

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Not Available

**Developmental Toxicity:** Not Available

**Target Organs:** Lungs, central nervous system, Digestive System, Respiratory Tract, Skin, Eyes, Blood, Kidneys, Liver. May be irritating to eyes, skin, and respiratory system. Aspiration hazard if swallowed. Can enter lungs and cause damage.

2-Butoxyethanol (CAS # 111-76-2)

**Carcinogenic Effects:** A3 – Confirmed animal carcinogen with unknown relevance to humans by ACGIH.

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Has shown teratogenic effects in laboratory animals

**Developmental Toxicity:** Not Available

**Target Organs:** Blood, kidneys, liver, lymphatic system, central nervous system (CNS). **Inhalation:** Causes irritation to the respiratory tract. Symptoms may include sore throat, coughing, headache, nausea and shortness of breath. High concentrations have a narcotic effect. **Ingestion:** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Toxic! May cause systemic poisoning with symptoms paralleling those of inhalation. **Skin Contact:** May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects. **Eye Contact:** Vapors are irritating and may produce immediate pain, redness and tearing. Splashing can cause severe pain, stinging, swelling. **Chronic Exposure:** Prolonged or repeated exposures can cause damage to the liver, kidneys, lymphoid system, blood and blood-forming organs. **Aggravation of Pre-Existing Conditions:** Persons with pre-existing skin disorders, eye problems, impaired liver, kidney, blood, respiratory or lymphoid system function may be more susceptible to the effects of the substance.

Dimethyl Adipate (627-93-0) Dimethyl Glutarate (1119-40-0) Diethylene Glycol Monobutyl Ether (112-34-5)

**Carcinogenic Effects:** Not Available

**Mutagenic Effects:** no genetic effects were observed in standard tests using bacterial cells and whole animals. Genetic effects were observed in standard tests with animal cells.

**Teratogenic Effects:** Not Available

**Developmental Toxicity:** Rat inhalation: no effects on offspring observed in laboratory animals in the presence of maternal toxicity.

**Reproductive Effects:** Minor changes in male fertility parameters, i.e. hormone measurements, sperm number or reproductive organ weights, observed in the absence of a change in reproductive performance. Rodents are more susceptible to reported effect than humans. Rat inhalation, 1 generation: signs of generalized toxicity (reduced body weight and/or reduced weight gain) were observed in parental animals and offspring with no effect on fertility or reproduction.

**Target Organs:** Causes eye irritation, May cause skin irritation, May cause respiratory tract irritation, may cause blurred vision. Based on similar material this product produced mild skin and moderate eye irritation during primary irritation studies in rabbits. No dermal sensitization was produced in guinea pigs (based on similar product). Repeat dose toxicity: rat, inhalation, 90 day: produced effects on body weight, serum enzymes and organ weights in repeat dose studies. Repeated inhalation exposure produces nasal tissue damage. This material can produce temporary blurred vision following exposure to high vapor concentrations or direct contact with eyes.

Normal Butyl Acetate (123-86-4)

**Carcinogenic Effects:** not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Not Available

**Developmental Toxicity:** Specific Developmental Abnormalities: Musculoskeletal, inhalation rat  
TCL=1500ppm/7H.

**Target Organs:** **Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness. **Skin:** May be harmful if absorbed through skin. Causes skin irritation. **Eyes:** Causes eye irritation. **Ingestion:** May be harmful if swallowed.

(2-Ethoxyethyl acetate)

**Carcinogenic Effects:** not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** May cause congenital malformations in the fetus. Presumed human reproductive toxicant. May cause reproductive disorders.

**Developmental Toxicity:**

**Target Organs:** **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation. **Ingestion:** May be harmful if swallowed. **Skin:** May be harmful if absorbed through skin. May cause skin irritation. **Eyes:** May cause eye irritation.

Di-n-butyl Phthalate 84-74-2

**Carcinogenic Effects:** Not listed by OSHA, NTP, or IARC.

**Mutagenic Effects:** Not Available.

**Teratogenic Effects:** Women working where phthalates are used had higher incidence of miscarriages, menstrual disorders, and reduced gestation periods.

**Developmental Toxicity:** Not Available

**Target Organs:** **Inhalation:** Inhalation of vapors or mists is not expected unless this material is heated or misted. If inhaled, material may cause irritation to respiratory tract.

**Ingestion:** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Accidental ingestion of 10 g (ca. 40 mg/kg) in one person produced nausea and vomiting, dizziness, light sensitivity, swelling of the eyelids, watering of the eyes, and kidney effects (red and white blood cells and oxalate crystals in the urine).

**Skin Contact:** Irritation and contact burns are possible, but do not occur frequently. Allergic dermatitis has been reported after using antiperspirants and contact with plastics containing dibutyl phthalate (such as a watchband).

**Eye Contact:** Vapor or mist causes eye irritation. Splashes cause severe irritation with stinging pain and tears.

**Chronic Exposure:** Workers in the artificial leather industry were studied and it was found that exposure to 1.7 to 66 mg/m<sup>3</sup> over a period of 19 years showed central nervous system toxicity after 6 to 7 years.

Symptoms included pain, numbness, weakness and spasms in the extremities. Because there was concurrent exposure to other phthalates and a few adipates and sebacates, dibutyl phthalate cannot be singled out as the direct cause.

**Aggravation of Pre-existing Conditions:** No information found.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** 2-Butoxyethanol (CAS # 111-76-2)  
96 hour Lepomis macrochirus (LC50) 1490 mg/l

**Ecotoxicity:** Dimethyl Glutarate, Dimethyl Succinate, and Dimethyl Adipate  
EC50/48-hour/Daphnia=17 mg/l  
EC50/72-hour/Algae=46.9 mg/l  
LC50/96-hour/bluegill sunfish = 7.5 mg/l

**Ecotoxicity:** Normal Butyl Acetate (123-86-4)  
96 Hr Fish Fathead Minnow LC50 = 18.0 mg/L  
96 Hr bluegill/Sunfish: LC50 = 100 mg/L  
48 Hr Static Condition water flea EC50 = 44.0 mg/L

**Ecotoxicity:** (2-Ethoxyethyl acetate)  
EC50 – Daphnia magna (Water flea) – 193.6 mg/l – 48 h

## Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

## Section 14: TRANSPORTATION INFORMATION

**Not regulated in DOT Non-Bulk.**

### DOT Bulk

**Proper Shipping Name:** Combustible liquid, n.o.s.

**Hazard Class:** Comb Liq

**Identification No.:** NA1993

**Packing Group:** III

**Label:** Combustible

### IATA

**Proper Shipping Name:** Paint related material

**Hazard Class:** 3

**Identification No.:** UN1263

**Packing Group:** III

## Section 15: REGULATORY INFORMATION

**TSCA Inventory** This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

**SARA 302/304** The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold



Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

**CERCLA** The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Butyl Acetate (123-86-4) 5,000 lbs, Dibutyl phthalate (84-74-2) 10 lbs, Naphthalene (91-20-3) 100 lbs

**SARA 311/312 Hazard** The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: fire hazard, immediate (acute) health hazard, delayed (chronic) health hazard.

#### **SARA 313 Supplier Notification**

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372 -Table 372.65).

Naphthalene (91-20-3) <2.9%

1,2,4-trimethylbenzene (95-63-6) <1%

Ethylglycol acetate (111-15-9) 1-50%

Di-n-butyl Phthalates (84-74-2) <10%

**CALIFORNIA PROP. 65 WARNING:** This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

## **Section 16: OTHER SUPPLEMENTAL INFORMATION**

**Prepared by: Chemisphere Corp. on October 29, 2014**

#### **Disclaimer:**

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Chemisphere, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Chemisphere be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE BY CHEMISPHERE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this SDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.

This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.



## SAFETY DATA SHEET

## 1. Identification

**Product Name:** K2 SuperBrew  
**Product Code:** B11767  
**SDS Date:** 7/21/2015  
**Use:** Industrial

Chemisphere Corporation  
2101 Clifton Ave  
St. Louis, MO 63139

**General Information: 314-644-1300**  
**CHEMTREC: 800-424-9300**

## 2. Hazard(s) identification

## GHSClassification

Flammable liquids (Category 3)  
Acute toxicity, Dermal (Category 4)  
Acute toxicity, Inhalation (Category 4)  
Skin irritation (Category 2)  
Serious eye damage (Category 1)  
Specific target organ toxicity - single exposure (Category 3), Central nervous system  
Specific target organ toxicity - single exposure (Category 3), Respiratory system  
Specific target organ toxicity (repeated exposure) Category 1  
Specific target organ toxicity (repeated exposure) Category 2  
Specific target organ toxicity (single exposure) Category 1  
Specific target organ toxicity (single exposure) Category 2  
Carcinogenicity (Category 2)  
Aspiration hazard (Category 1)  
Reproductive toxicity (Category 1B)

## Pictogram



**Signalword** Danger

## HazardStatement

Flammable liquid and vapor  
Harmful in contact with skin.  
Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation  
May cause drowsiness or dizziness  
Causes damage to organs through prolonged or repeated exposure



May cause damage to organs through prolonged or repeated exposure  
 Causes damage to organs  
 May cause damage to organs  
 Suspected of causing cancer  
 May be fatal if swallowed and enters airways  
 May damage fertility or the unborn child

**Precautionary**

Call a poison center/doctor if you feel unwell. Do not breathe mist/vapors/spray. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. Ground/bond container and receiving equipment. 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. Continue rinsing. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water shower. If on skin: wash with plenty of water. If skin irritation occurs: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Keep away from heat/sparks/open flames/hot surfaces-no smoking. Keep container tightly closed. Obtain special instructions before use. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Take precautionary measure against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Dispose of contents/ container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified:** Not available

**3. Composition/information on ingredients**

Name	CAS	Concentration
Dimethyl Glutarate	1119-40-0	1-20
Dimethyl Succinate	106-65-0	1-20
Dimethyl Adipate	627-93-0	1-20
Diethylene Glycol Monobutyl Ether Acetate	124-17-4	1-20
2-Ethoxyethyl Acetate	111-15-9	1-20
Solvent naphtha (petroleum), heavy arom.	64742-94-5	1-20
1,2,4-trimethylbenzene	95-63-6	1-10
Dibutyl Phthalate	84-74-2	1-20
bis(2-Ethylhexyl) phthalate	117-81-7	1-20
Isobutyl Alcohol	78-83-1	1-20
2-Methoxypropyl Acetate	108-65-6	1-20
Ethylbenzene	100-41-4	1-20
Methyl Propyl Ketone	107-87-9	1-20



Methyl isobutyl ketone	108-10-1	1-20
2-Butoxyethanol	111-76-2	1-20
n-Butyl acetate	123-86-4	1-20
Xylene	1330-20-7	1-25
Isopropyl Alcohol	67-63-0	1-20
Ethyl 3-ethoxypropionate	763-69-9	1-20
Naphthalene	91-20-3	1-10

## 4. First-aid measures

<b>General Advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>If Inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In Case of Skin Contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In Case of Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If Swallowed</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### Indications of any immediate medical attention and special treatment needed

No data available

## 5. Fire-fighting measures

<b>Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special Hazards</b>	Carbon oxides
<b>Advice for firefighters</b>	Wear self-contained breathing apparatus for firefighting if necessary.
<b>Further Information</b>	Use water spray to cool unopened containers.

## 6. Accidental release measures

### Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
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### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).



**7. Handling and storage**

**Safe Handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Safe Storage** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**8. Exposure controls/personal protection**

Name		CAS	
Dimethyl Glutarate		1119-40-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Dimethyl Succinate		106-65-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Dimethyl Adipate		627-93-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Diethylene Glycol Monobutyl Ether Acetate		124-17-4	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
2-Ethoxyethyl Acetate		111-15-9	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
100 ppm	Not Available	5 ppm	Not Available
Solvent naphtha (petroleum), heavy arom.		64742-94-5	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
1,2,4-trimethylbenzene		95-63-6	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Dibutyl Phthalate		84-74-2	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
5 mg/m3	Not Available	5 mg/m3	Not Available



bis(2-Ethylhexyl) phthalate		117-81-7	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
5 mg/m3	10 mg/m3	5 mg/m3	Not Available
Isobutyl Alcohol		78-83-1	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
100 ppm	Not Available	50 ppm	Not Available
2-Methoxypropyl Acetate		108-65-6	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Ethylbenzene		100-41-4	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
100 ppm	Not Available	20 ppm	125 ppm
Methyl Propyl Ketone		107-87-9	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
200 ppm	Not Available	Not Available	150 ppm
Methyl isobutyl ketone		108-10-1	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
50 ppm	75 ppm	20 ppm	75 ppm
2-Butoxyethanol		111-76-2	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
50 ppm	Not Available	20 ppm	Not Available
n-Butyl acetate		123-86-4	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
150 ppm	Not Available	150 ppm	200 ppm
Xylene		1330-20-7	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
100 ppm	150 ppm	100 ppm	150 ppm
Isopropyl Alcohol		67-63-0	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
400 ppm	Not Available	200 ppm	400 ppm



Ethyl 3-ethoxypropionate		763-69-9	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Naphthalene		91-20-3	
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
10 ppm	15 ppm	10 ppm	Not Available

- Engineering Control**      Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Eye/Face Protection**      Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin Protection**            Handle with fluorinated rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Body Protection**            Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory Protection**      Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Control of Environmental Exposure**  
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



## 9. Physical and chemical properties

<b>Appearance</b>	Xylene	Liquid
<b>Odor</b>	Xylene	No data available
<b>Odor Threshold</b>	Xylene	No data available
<b>pH</b>	Xylene	No data available
<b>Melting/Freezing Point</b>	Xylene	No data available
<b>Initial Boiling Point/Range</b>	Xylene	137 - 140 °C (279 - 284 °F) - lit.
<b>Flash Point</b>	Xylene	25 °C (77 °F) - closed cup
<b>Evaporation Rate</b>	Xylene	No data available
<b>Flammability</b>	Xylene	No data available
<b>Upper Explosion Limit</b>	Xylene	No data available
<b>Lower Explosion Limit</b>	Xylene	No data available
<b>Vapor Pressure</b>	Xylene	24 hPa (18 mmHg) at 37.7 °C (99.9 °F)
<b>Vapor Density</b>	Xylene	No data available
<b>Relative Density</b>	Xylene	0.86 g/mL at 25 °C (77 °F)
<b>Water Solubility</b>	Xylene	No data available
<b>Partition Coefficient</b>	Xylene	No data available
<b>Auto Ignition Temperature</b>	Xylene	No data available
<b>Decomposition Temperature</b>	Xylene	No data available
<b>Viscosity</b>	Xylene	No data available





## 10. Stability and reactivity

**Reactivity** No data available

**Chemical Stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** No data available

**Conditions to Avoid** Heat, flames and sparks.

**Incompatible materials** Strong oxidizing agents

**Hazardous Decomposition Products** No data available

## 11. Toxicological information

Name	CAS
Dimethyl Glutarate	1119-40-0
Oral: no data available	
Inhalation: no data available	
Dermal: no data available	
<b>Skin corrosion/irritation</b> no data available	
<b>Serious eye damage/eye irritation</b> no data available	
<b>Respiratory or skin sensitization</b> no data available	
<b>Germ cell mutagenicity</b> no data available	
<b>Carcinogenicity</b> Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
<b>Reproductive</b> no data available	
<b>Additional information</b> no data available	



Name	CAS
Dimethyl Succinate	106-65-0
LD50 Oral - Rat - female - 6,892 mg/kg	
LD50 Inhalation - Rat - male and female - > 2,000 mg/l	
LD50 Dermal - Rabbit - > 5,000 mg/kg	
<b>Skin corrosion/irritation</b>	Result: No skin irritation
<b>Serious eye damage/eye irritation</b>	Result: Mild eye irritation
<b>Respiratory or skin sensitization</b>	Result: Did not cause sensitisation on laboratory animals.
<b>Germ cell mutagenicity</b>	Result: negative
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	No data available

Name	CAS
Dimethyl Adipate	627-93-0
LD50 Oral - Rat - male and female - > 5,000 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - male and female - > 1,000 mg/kg	
<b>Skin corrosion/irritation</b>	Result: No skin irritation - 4 h
<b>Serious eye damage/eye irritation</b>	Result: No eye irritation
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	Result: negative
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA
<b>Reproductive</b>	Rat: Effects on Fertility: Post-implantation mortality, Specific Developmental Abnormalities: Musculoskeletal system.
<b>Additional information</b>	No data available



Name	CAS
Diethylene Glycol Monobutyl Ether Acetate	124-17-4
LD50 Oral - Rat - 6,500 mg/kg	
LC50 Inhalation - Rat - 4 h - 72,500 mg/m <sup>3</sup>	
LD50 Dermal - Rabbit - 14,500 mg/kg	
<b>Skin corrosion/irritation</b> Result: Mild skin irritation	
<b>Serious eye damage/eye irritation</b> Result: Mild eye irritation	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> No data available	
<b>Carcinogenicity</b> Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
<b>Reproductive</b> No data available	
<b>Additional information</b> No data available	

Name	CAS
2-Ethoxyethyl Acetate	111-15-9
LD50 Oral - Rat - 2,700 mg/kg	
LC50 Inhalation - Rat - 8 h - 12,100 mg/m <sup>3</sup>	
LD50 Dermal: No data available	
<b>Skin corrosion/irritation</b> Result: Open irritation test	
<b>Serious eye damage/eye irritation</b> No data available	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> No data available	
<b>Carcinogenicity</b> Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
<b>Reproductive</b> May cause congenital malformation in the fetus. Presumed human reproductive toxicant May cause reproductive disorders.	
<b>Additional information</b> No data available	



Name	CAS
Solvent naphtha (petroleum), heavy arom.	64742-94-5
LD50 oral rat >2000 mg/kg	
LC50 inhalation rat >5000 mg/m <sup>3</sup>	
LD50 dermal rat >5000 mg/kg	
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	Not Available
<b>Reproductive</b>	No data available
<b>Additional information</b>	No data available

Name	CAS
1,2,4-trimethylbenzene	95-63-6
LD50 Oral - Rat - male - 6,000 mg/kg	
Inhalation: No data available	
Dermal: No data available	
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	Result: negative
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	prolonged or repeated exposure can cause:, narcosis, Bronchitis., Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



Name	CAS
Dibutyl Phthalate	84-74-2
LD50 Oral - rat - 8,000 mg/kg	
LC50 Inhalation - rat - 4,250 mg/m3	
LD50 Dermal - rabbit - > 20,860 mg/kg	
<b>Skin corrosion/irritation</b>	no data available
<b>Serious eye damage/eye irritation</b>	no data available
<b>Respiratory or skin sensitization</b>	no data available
<b>Germ cell mutagenicity</b>	no data available
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
<b>Reproductive</b>	Presumed human reproductive toxicant Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
<b>Additional information</b>	Nausea, Dizziness, Headache,

Name	CAS
bis(2-Ethylhexyl) phthalate	117-81-7
LD50 Oral - rat - 30,000 mg/kg	
Inhalation: no data available	
LD50 Dermal - rabbit - 25,000 mg/kg	
<b>Skin corrosion/irritation</b>	Result: Mild skin irritation - 24 h
<b>Serious eye damage/eye irritation</b>	Result: Mild eye irritation - 24 h
<b>Respiratory or skin sensitization</b>	Result: Does not cause skin sensitisation.
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	IARC: 2B - Group 2B: Possibly carcinogenic to humans (bis(2-Ethylhexyl) phthalate) NTP: Reasonably anticipated to be a human carcinogen (bis(2-Ethylhexyl) phthalate)
<b>Reproductive</b>	May cause congenital malformation in the fetus. Presumed human reproductive toxicant May cause reproductive disorders.
<b>Additional information</b>	Effects due to ingestion may include:, Gastrointestinal disturbance Kidney -



Name	CAS
Isobutyl Alcohol	78-83-1
LD50 Oral - Rat - 2,460 mg/kg	
LD50 Oral - Rat - 2,500 - 6,400 mg/kg	
LC50 Inhalation - Rat - 4 h - 8000 ppm	
LD50 Dermal - Rabbit - 3,400 mg/kg	
LD50 Dermal - Rabbit - 4,240 mg/kg	
<b>Skin corrosion/irritation</b>	Result: Mild skin irritation
<b>Serious eye damage/eye irritation</b>	Remarks: Moderate eye irritation
<b>Respiratory or skin sensitization</b>	Dermatitis
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	Cough, Shortness of breath, Headache, Nausea, Vomiting, Central nervous system depression,

Name	CAS
2-Methoxypropyl Acetate	108-65-6
LD50 Oral - Rat - female - 8,532 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rat - male and female - > 2,000 mg/kg	
<b>Skin corrosion/irritation</b>	Result: No skin irritation
<b>Serious eye damage/eye irritation</b>	Result: No eye irritation
<b>Respiratory or skin sensitization</b>	Did not cause sensitization on laboratory animals.
<b>Germ cell mutagenicity</b>	Result: negative
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	Stomach - Irregularities - Based on Human Evidence



Name	CAS
Ethylbenzene	100-41-4
LD50 Oral - Rat - male and female - 3,500 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - 15,433 mg/kg	
<b>Skin corrosion/irritation</b> Result: Mild eye irritation	
<b>Serious eye damage/eye irritation</b> Result: Mild eye irritation	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> Result: negative	
<b>Carcinogenicity</b> IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene)	
<b>Reproductive</b> No data available	
<b>Additional information</b> May be fatal if swallowed and enters airways. Central nervous system depression, Nausea, Headache, Vomiting, Ataxia., Tremors	

Name	CAS
Methyl Propyl Ketone	107-87-9
LD50 Oral - Rat - 1,600 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - 6,500 mg/kg	
<b>Skin corrosion/irritation</b> Result: Open irritation test	
<b>Serious eye damage/eye irritation</b> No data available	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> No data available	
<b>Carcinogenicity</b> Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
<b>Reproductive</b> No data available	
<b>Additional information</b> Lowered blood pressure, Central nervous system depression, narcosis, Nausea, Dizziness, Headache, Exposure to and/or consumption of alcohol may increase toxic effects.	



**Name** **CAS**  
Methyl isobutyl ketone 108-10-1  
LD50 Oral - Rat - 2,080 mg/kg  
LC50 Inhalation - Rat - 4 h - 8.2 - 16.4 mg/m3  
LD50 Dermal - Rabbit - > 16,000 mg/kg  
**Skin corrosion/irritation** Result: Mild skin irritation - 24 h  
**Serious eye damage/eye irritation** Result: Moderate eye irritation - 24 h  
**Respiratory or skin sensitization** No data available  
**Germ cell mutagenicity** No data available  
**Carcinogenicity** IARC: 2B - Group 2B: Possibly carcinogenic to humans (4-Methylpentan-2-one)  
**Reproductive** Developmental Toxicity - Mouse - Inhalation  
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.  
**Additional information** Blurred vision, Dermatitis,

**Name** **CAS**  
2-Butoxyethanol 111-76-2  
LD50 Oral - Rat - 470 mg/kg  
LC50 Inhalation - Rat - 4 h - 450 ppm  
LD50 Intraperitoneal - Rat - 220 mg/kg, LD50 Intravenous - Rat - 307 mg/kg  
**Skin corrosion/irritation** Result: Open irritation test  
**Serious eye damage/eye irritation** Result: Moderate eye irritation - 24 h  
**Respiratory or skin sensitization** No data available  
**Germ cell mutagenicity** No data available  
**Carcinogenicity** IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)  
**Reproductive** Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.  
**Additional information** Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis





Name	CAS
n-Butyl acetate	123-86-4
LD50 Oral - Rat - 10,700 - 14,130 mg/kg	
LC50 Inhalation - Rat - 4 h - > 21.0 mg/l	
LD50 Dermal - Rabbit - 17,600 mg/kg	
<b>Skin corrosion/irritation</b> Result: No skin irritation - 4 h	
<b>Serious eye damage/eye irritation</b> Result: No eye irritation	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> No data available	
<b>Carcinogenicity</b> Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
<b>Reproductive</b> No data available	
<b>Additional information</b> Drowsiness, Stomach - Irregularities	

Name	CAS
Xylene	1330-20-7
Oral: No data available	
Inhalation: No data available	
Dermal: No data available	
<b>Skin corrosion/irritation</b> No data available	
<b>Serious eye damage/eye irritation</b> No data available	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> No data available	
<b>Carcinogenicity</b> IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Xylene)	
<b>Reproductive</b> No data available	
<b>Additional information</b> No data available	



<b>Name</b>	<b>CAS</b>
Isopropyl Alcohol	67-63-0
LD50 Oral - Rat - 5,045 mg/kg	
LC50 Inhalation - Rat - 8 h - 16000 ppm	
LD50 Dermal - Rabbit - 12,800 mg/kg	
<b>Skin corrosion/irritation</b>	Result: Mild skin irritation
<b>Serious eye damage/eye irritation</b>	Result: Eye irritation - 24 h
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)
<b>Reproductive</b>	No data available
<b>Additional information</b>	Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to:, Lung oedema, Pneumonia

<b>Name</b>	<b>CAS</b>
Ethyl 3-ethoxypropionate	763-69-9
LD50 Oral - Rat - male - > 5,000 mg/kg, LD50 Oral - Rat - female - 4,309 mg/kg	
LC50 Inhalation - Rat - male - 6 h - > 998 ppm	
LD50 Dermal - Rabbit - male - 4,080 mg/kg, LD50 Dermal - Rabbit - female - 4,680 mg/kg	
<b>Skin corrosion/irritation</b>	Result: No skin irritation - 4 h
<b>Serious eye damage/eye irritation</b>	Result: No eye irritation - 24 h
<b>Respiratory or skin sensitization</b>	Result: Does not cause skin sensitisation.
<b>Germ cell mutagenicity</b>	Result: negative
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	Nausea, Headache, Vomiting, Central nervous system depression, Dizziness



<b>Name</b>	<b>CAS</b>
Naphthalene	91-20-3
LD50 Oral - Rat - 490.0 mg/kg	
LC50 Inhalation - Rat - 1 h - > 340 mg/m3	
LD50 Dermal - Rabbit - 20,000 mg/kg	
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	Result: Mild eye irritation
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	IARC: 2B - Group 2B: Possibly carcinogenic to humans (Naphthalene), NTP: Reasonably anticipated to be a human carcinogen (Naphthalene),
<b>Reproductive</b>	No data available
<b>Additional information</b>	Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Naphthalene is retinotoxic and systemic absorption of its vapors above 15ppm, may result in:; cataracts, optic neuritis, corneal injury, Eye irritation, Ingestion may provoke the following symptoms:; hemolytic anemia, hemoglobinuria, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Convulsions, anemia, Kidney injury may occur., Seizures., Coma.

**12. Ecological information**

Name	CAS	Toxicity
Dimethyl Glutarate	1119-40-0	no data available
Dimethyl Succinate	106-65-0	semi-static test LC50 - Danio rerio (zebra fish) - 50 - 100 mg/l - 96 h static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h Toxicity to bacteria Growth inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3 h
Dimethyl Adipate	627-93-0	static test EC50 - Daphnia magna (Water flea) - 72 mg/l - 48 h Toxicity to algae static test - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h



Diethylene Glycol Monobutyl	124-17-4	LC50 - Pimephales promelas (fathead minnow) - 77 mg/l - 96 h EC50 - Daphnia magna (Water flea) - 665 mg/l - 48 h
2-Ethoxyethyl Acetate	111-15-9	No Data Available
Solvent naphtha (petroleum),	64742-94-5	No Data Available
1,2,4-trimethylbenzene	95-63-6	flow-through test LC50 - Pimephales promelas (fathead minnow) - 7.72 mg/l - 96.0 h static test EC50 - Daphnia magna (Water flea) - 3.6 mg/l - 48 h
Dibutyl Phthalate	84-74-2	LC50 - Pimephales promelas (fathead minnow) - 0.85 mg/l - 96.0 h NOEC - Pimephales promelas (fathead minnow) - 0.32 mg/l - 96.0 h LC50 - Daphnia magna (Water flea) - 3.7 mg/l - 48 h
bis(2-Ethylhexyl) phthalate	117-81-7	LC50 - Pimephales promelas (fathead minnow) - > 0.67 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.32 mg/l - 96 h LC50 - Cyprinodon variegatus (sheepshead minnow) - > 0.17 mg/l - 96 h LC50 - Lepomis macrochirus (Bluegill) - > 0.20 mg/l - 96 h NOEC - other fish - > 0.3 mg/l - 96 h
Isobutyl Alcohol	78-83-1	LC50 - Pimephales promelas (fathead minnow) - 1.220 mg/l - 96 h
2-Methoxypropyl Acetate	108-65-6	mortality LC50 - Salmo gairdneri - 100 - 180 mg/l - 96 h static test EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h
Ethylbenzene	100-41-4	flow-through test LC50 - Menidia menidia (Atlantic silverside) - 5.1 mg/l - 96 h, static test EC50 - Daphnia magna (Water flea) - 1.8 - 2.4 mg/l - 48 h, static test EC50 - Skeletonema costatum - 4.9 mg/l - 72 h



Methyl Propyl Ketone	107-87-9	LC50 - Pimephales promelas (fathead minnow) - 1,240 mg/l - 96 h
Methyl isobutyl ketone	108-10-1	LC0 - Leuciscus idus melanotus - 480 mg/l - 48 h, EC50 - Daphnia magna (Water flea) - 1,550 - 3,623 mg/l - 24 h, EC50 - Desmodesmus subspicatus (green algae) - 980 - 2,000 mg/l - 48 h
2-Butoxyethanol	111-76-2	LC50 - other fish - 220 mg/l - 96 h, EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h
n-Butyl acetate	123-86-4	Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 100 mg/l - 96 h, Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 72.8 - 205.0 mg/l - 24 h, EC50 - Daphnia (water flea) - 44 mg/l - 48 h, Toxicity to algae EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 674.7 mg/l - 72 h
Xylene	1330-20-7	No data available
Isopropyl Alcohol	67-63-0	LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h, EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h, Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h, Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h, EC50 - Algae - > 1,000.00 mg/l - 24 h
Ethyl 3-ethoxypropionate	763-69-9	static test LC50 - Pimephales promelas (fathead minnow) - 55.3 mg/l - 96 h, static test LC50 - Pimephales promelas (fathead minnow) - 45.3 mg/l - 96 h, Immobilization EC50 - Daphnia magna (Water flea) - > 479.7 mg/l - 48 h, Immobilization EC50 - Daphnia magna (Water flea) - 785 mg/l - 48 h, Growth inhibition EC50 - Selenastrum capricornutum (green algae) - > 114.86 mg/l - 72 h, Growth inhibition IC50 - other microorganisms - > 5,000 mg/l - 16 h



Naphthalene

91-20-3

LC50 - Oncorhynchus mykiss (rainbow trout) - 0.9 - 9.8 mg/l - 96.0 h, LC50 - Pimephales promelas (fathead minnow) - 1 - 6.5 mg/l - 96.0 h, NOEC - other fish - 1.8 mg/l - 3.0 d, LOEC - other fish - 3.2 mg/l - 3.0 d, EC50 - Daphnia magna (Water flea) - 1.00 - 3.40 mg/l - 48 h, EC50 - No information available. - 33.00 mg/l - 24 h

### 13. Disposal considerations

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

### 14. Transport information

<b>Proper Shipping Name</b>	Paint Related Material
<b>Hazard Class</b>	3
<b>Identification Number</b>	UN1263
<b>Packing Group</b>	III
<b>Label</b>	Flammable

### 15. Regulatory information

Name	CAS
Dimethyl Glutarate	1119-40-0
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard
<b>PROP 65</b>	No components were identified

Name	CAS
Dimethyl Succinate	106-65-0
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard
<b>PROP 65</b>	No components were identified



**Name** **CAS**  
Dimethyl Adipate 627-93-0

- SARA 302/304** No components were identified
- SARA 313** No components were identified
- CERCLA** No components were identified
- SARA 311/312** Chronic Health Hazard
- PROP 65** No components were identified

**Name** **CAS**  
Diethylene Glycol Monobutyl Ether Acetate 124-17-4

- SARA 302/304** No components were identified
- SARA 313** No components were identified
- CERCLA** No components were identified
- SARA 311/312** No components were identified
- PROP 65** No components were identified

**Name** **CAS**  
2-Ethoxyethyl Acetate 111-15-9

- SARA 302/304** No components were identified
- SARA 313** No components were identified
- CERCLA** No components were identified
- SARA 311/312** Fire Hazard, Acute Health Hazard, Chronic Health Hazard
- PROP 65** Developmental hazard

**Name** **CAS**  
Solvent naphtha (petroleum), heavy arom. 64742-94-5

- SARA 302/304** No components were identified
- SARA 313** No components were identified
- CERCLA** No components were identified
- SARA 311/312** Fire Hazard, Acute Health Hazard, Chronic Health Hazard
- PROP 65** No components were identified



<b>Name</b>	<b>CAS</b>
1,2,4-trimethylbenzene	95-63-6
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified

<b>Name</b>	<b>CAS</b>
Dibutyl Phthalate	84-74-2
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	RQ = 10 lbs
<b>SARA 311/312</b>	Chronic Health Hazard
<b>PROP 65</b>	Developmental hazard

<b>Name</b>	<b>CAS</b>
bis(2-Ethylhexyl) phthalate	117-81-7
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	RQ = 100 lbs
<b>SARA 311/312</b>	Chronic Health Hazard
<b>PROP 65</b>	Cancer Hazard, Developmental Hazard

<b>Name</b>	<b>CAS</b>
Isobutyl Alcohol	78-83-1
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	RQ = 5,000 lbs
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified





Name	CAS
2-Methoxypropyl Acetate	108-65-6
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified

Name	CAS
Ethylbenzene	100-41-4
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	RQ=1,000 lbs
<b>SARA 311/312</b>	Fire Hazard, Chronic Health Hazard
<b>PROP 65</b>	Cancer hazard

Name	CAS
Methyl Propyl Ketone	107-87-9
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified

Name	CAS
Methyl isobutyl ketone	108-10-1
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	RQ=5,000 lbs
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	Cancer Hazard



Name	CAS
2-Butoxyethanol	111-76-2
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified

Name	CAS
n-Butyl acetate	123-86-4
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	RQ=5,000 lbs
<b>SARA 311/312</b>	Fire Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified

Name	CAS
Xylene	1330-20-7
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	RQ=100 lbs
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified

Name	CAS
Isopropyl Alcohol	67-63-0
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	No components were identified



<b>Name</b>	<b>CAS</b>
Ethyl 3-ethoxypropionate	763-69-9

**SARA 302/304** No components were identified

**SARA 313** No components were identified

**CERCLA** No components were identified

**SARA 311/312** Fire Hazard

**PROP 65** No components were identified

<b>Name</b>	<b>CAS</b>
Naphthalene	91-20-3

**SARA 302/304** No components were identified

**SARA 313** 313

**CERCLA** RQ=100 lbs

**SARA 311/312** Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**PROP 65** Cancer Hazard

**16. Other information, including date of preparation or last revision****SDS Date:** 7/21/2015**Disclaimer:**

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