

SAFETY DATA SHEET Sealer Wax

SDS No: 7005-1

Version: 1.1 (REG_29 CFR 1910.1200 /REG_GHS Rev.5th e.2013)

Date of last Revision: 08/19/2014

1. Identification of the substance or mixture and of the supplier

- 1.1 Product identifier used on the label:** Sealer Wax
- 1.2 Other means of identification:** Not Applicable
- 1.3 Recommended use of the chemical and restrictions on use:** Formulated for use in automatic car washes as water repellent before the final rinse. This material should not be used for any other purpose than that recommended without expert advice.
- 1.4 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
J.B.Chemical Co., Inc.
14803 S. Spring Street
Gardena, CA 90248, USA
310-532-3021
800-522-2468
- 1.5 Emergency phone numbers:**
J.B.Chemical Co., Inc.: (310) 532-3021, (800) 522-2468 Monday - Friday, 7:00am - 3:00pm PST
Chemtrec: (800) 424-9300 - Outside the continental U.S.: (703) 527-3887 24 Hours

2. Hazard(s) identification

- 2.1 Classification of the chemical in accordance with 29 CFR 1910.1200(d) and GHS Rev.5th e.2013:**
This product is classified as hazardous.
- Flammable Liquid Category 3
Acute Toxicity Category 5
Aspiration Toxicity Category 1
Skin Corrosion Category 1
Eye Damage Category 1
Specific Target Organ Toxicity Single Exposure Category 3 (Central Nervous System)
Aquatic Acute Category 2
Aquatic Chronic Category 2
- 2.2 Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with 29 CFR 1910.1200(f) and GHS Rev.5th e.2013:**
- Signal word:** Danger
- Hazard statement(s):**
- **Physical Hazards:** H226: Flammable liquid and vapor.
 - **Health Hazards:** H304: May be fatal if swallowed and enters airways
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H303: May be harmful if swallowed.
H336: May cause drowsiness or dizziness (Central Nervous System).
 - **Environmental Hazard:** H401: Toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

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Symbol(s):



Precautionary statement(s):

Prevention:

- P102: Keep out of reach of children.
- P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P264: Wash hands thoroughly after handling.
- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/ eye protection.

Response:

- P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Immediately call a POISON CENTER or doctor/physician.
- P362: Take off contaminated clothing and wash before reuse.
- P391: Collect spillage.

Storage:

- P403+P233+P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- P405: Store locked up.

Disposal:

- P501: Dispose of contents/container in accordance with CERCLA/CWA (Section 311)/SARA Title III Regulations.

2.3 Describe any hazards not otherwise classified that have been identified during the classification process
Not Determined

2.4 Where an ingredient with unknown acute toxicity is used in a mixture at a concentration $\geq 1\%$ and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required: Not Applicable

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3.Composition/ information on ingredients

Chemical name	CAS No.	EC No.	Concentration (Wt%)	Classification 29 CFR 1910.1200(d)/GHS
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated	64742-53-6	265-156-6	≤ 25.00	Asp Tox.1 H304 Skin Irrit.3 H316 STOT SE3 H336
Ethylene glycol monobutyl ether	111-76-2	203-905-0	≤ 5.00	Acute Tox.4 H302 Acute Tox.4 H312 Skin Irrit.2 H315 Eye Irrit.2 H319 Acute Tox.4 H332 Asp Tox.1 H304
Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides	61789-77-3	263-087-6	≤ 20.00	Acute Tox.4 H302 Skin Corr.1C H314 Eye Dam.1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
2-Propanol	67-63-0	200-661-7	≤ 10.00	Flam Liq.2 H225 Eye Irrit.2 H319 STOT SE3 H336

4.First-aid measures

4.1 Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion.

- **Inhalation:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, get medical attention.
- **Skin contact:** Clean affected areas with mild soap and water. Remove contaminated clothing, including shoes, and launder before reuse or discard. If any irritation persists, seek medical attention.
- **Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If any irritation persists, get medical attention.
- **Ingestion:** Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. If possible, do not leave victim unattended, get medical attention.

4.2 Most important symptoms/effects, acute and delayed: Skin and eye irritation/burn.

4.3 Indication of immediate medical attention and special treatment needed, if necessary: Persistent eye or skin burn/irritation.

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5.Fire-fighting measures

- 5.1 Suitable (and unsuitable) extinguishing media:** Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.
- 5.2 Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):** Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapor is heavier than air, spreads along the ground and distant ignition is possible.
- 5.3 Special protective equipment and precautions for fire-fighters:** Wear full protective clothing and self-contained breathing apparatus.

6.Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures:

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Wear protective equipment to prevent skin and eye contact and breathing in vapors. Remove all possible sources of ignition in the surrounding area. Shut off leaks, if possible without personal risks. Use appropriate containment (of product and fire-fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

6.2 Methods and materials for containment and cleaning up:

For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Centre at (800) 424-8802.

7.Handeling and storage

7.1 Precautions for safe handling:

Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Handle an open container with care in a well-ventilated area. Ventilate work place in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Do not empty into drains. Avoid handling above its flash point otherwise the product will form flammable/explosive vapor-air mixtures

7.2 Conditions for safe storage, including any incompatibilities:

For small containers, keep out of reach of children. Keep tightly closed and store in a cool and well ventilated area.

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Store only in approved containers and protect from physical damage. Storage should meet OSHA standards. Empty drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulation. Do not overheat; product will start boiling if heated above 200°F. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8.Exposure controls/ personal protection

8.1 OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Component(s):

Chemical name	Type	Exposure Limit values	Source
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	TWA(oil mist)	5 mg/m ³	OSHA PEL
2-Propanol CAS No:67-63-0	TWA (vapor,8 hr)	400 ppm / 980mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Ethylene glycol monobutyl ether CAS No:111-76-2	TWA (vapor,8 hr)	50 ppm / 240 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

8.2 Appropriate engineering controls: Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.3 Individual protection measures, such as personal protective equipment:

- **Eye/face protection:** Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields
- **Skin/hand protection:** Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended: Neoprene or Buna-N

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- **Respiratory protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements. If applicable, types of respirators to be considered for this material include: half-face air-purifying filter respirator suitable for organic vapors and particulates (P95).

9.Physical and chemical properties

Appearance (physical state, color, etc.):	Liquid, yellow color
Odor:	Characteristic
Odor threshold:	Not Determined
pH:	5.00-6.00
Melting point/freezing point:	Not Applicable
Initial boiling point and boiling range:	>180 °F
Flash point:	>36°C(96.8°F)
Evaporation rate:	Not Determined
Flammability (solid, gas):	Not Applicable
Upper/lower flammability or explosive limits:	Not Determined
Vapor pressure:	Not Determined
Vapor density:	Not Determined
Relative density:	0.93 at 77°F (Water=1)
Solubility(ies):	Miscible in water
Partition coefficient: n-octanol/water:	Not Determined
Auto-ignition temperature:	Not Determined
Decomposition temperature:	Not Applicable
Viscosity:	Not Determined

10.Stability and reactivity

- 10.1 Reactivity:** This material is considered to be non- reactive under normal use conditions.
- 10.2 Chemical stability:** Stable.
- 10.3 Possibility of hazardous reactions:** Hazardous polymerization will not occur.
- 10.4 Conditions to avoid (e.g., static discharge, shock, or vibration):** Avoid heat, sparks, open flames and other ignition sources.
- 10.5 Incompatible materials:** Strong oxidizing agents.
- 10.6 Hazardous decomposition products:** Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11.Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects, including:

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- 11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):**
- **Inhalation:** Irritating to respiratory system. Do not breathe dust/fume/gas/mist/vapors/spray.
 - **Ingestion:** May cause burns to mouth, throat and stomach. Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Ingestion may cause nausea, weakness and central nervous system effects.
 - **Skin contact:** Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
 - **Eye contact:** Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
- 11.2 Symptoms related to the physical, chemical and toxicological characteristics:** Not Determined
- 11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure:** See section 11.1.
- 11.4 Numerical measures of toxicity (such as acute toxicity estimates):** Not determined on the mixture.

Acute toxicity

Name (Components)	Route	Species	Value
2-Propanol CAS No:67-63-0	Dermal	Rabbit	LD50>12800 mg/m3
“	Ingestion	Rat	LD50>5000 mg/kg
“	Inhalation (4 hours)	Rat	LD50>45248 ppm
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	Dermal	Rabbit	LD50>2000 mg/kg
“	Ingestion	Rat	LD50>5000 mg/kg
“	Inhalation-Aerosol (4 hours)	Rat	LD50>2.18 mg/kg
Ethylene glycol monobutyl ether CAS No:111-76-2	Dermal	Rat	LD50 > 2000 mg/kg
“	Ingestion	Rat	LD50 > 1300 mg/kg
“	Inhalation-vapor (3 hours)	Rat	LC50 > 4.9 mg/l

Skin Corrosion/Irritation

Name (Components)	Species	Value
2-Propanol CAS No:67-63-0	Rabbit	May cause moderate skin irritation (but insufficient to classify).
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	Rabbit (24 hours)	Slight irritation

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Ethylene glycol monobutyl ether CAS No:111-76-2	Rabbit (24 hours)	Moderate irritation
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Serious Eye Damage/Irritation

Name (Components)	Species	Value
2-Propanol CAS No:67-63-0	Rabbit	Causes severe eye irritation.
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	Rabbit (24 hours)	Minimally irritating
Ethylene glycol monobutyl ether CAS No:111-76-2	Rabbit (24 hours)	Moderate irritation

Respiratory or skin sensitization

Name (Components)	Species	Value
2-Propanol CAS No:67-63-0		No data available
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	Human and Animal	Not a sensitizer
Ethylene glycol monobutyl ether CAS No:111-76-2	Guinea Pig	Not a skin sensitizer

Germ Cell Mutagenicity

Name (Components)	Route	Value
2-Propanol CAS No:67-63-0	In Vivo	No data available
2-Propanol CAS No:67-63-0	In Vitro	No data available
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	In Vitro	Not mutagenic
"	In Vivo	Not mutagenic
Ethylene glycol monobutyl ether CAS No:111-76-2	In Vitro: Salmonella typhimurium assay (Ames test)	negative +/- activation
"	In Vivo	

Carcinogenicity

Name (Components)	Route	Species	Value
2-Propanol CAS No:67-63-0			Not classified
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	Dermal	Not Specified	Not classified by NTP, IARC or OSHA
Ethylene glycol monobutyl ether CAS No:111-76-2			Not Classified.

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Reproductive toxicity

Name (Components)	Route	Species	Value	Test Result	Exposure Duration
2-Propanol CAS No:67-63-0			No relevant data found.		
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6			Not Classified		
Ethylene glycol monobutyl ether CAS No:111-76-2			Not Classified		

Specific Target Organ Toxicity - single exposure

Name (components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
2-Propanol CAS No:67-63-0	Inhalation		Central Nervous System	May cause drowsiness or dizziness		
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	Inhalation		Central Nervous System	May cause drowsiness or dizziness	NOAEL Not available	
Ethylene glycol monobutyl ether CAS No:111-76-2	Inhalation		Central Nervous System	May cause drowsiness or dizziness	NOAEL	

Specific Target Organ Toxicity - repeated exposure

Name (components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
2-Propanol CAS No:67-63-0				No data available		
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6					No data available	
Ethylene glycol monobutyl ether CAS No:111-76-2	Dermal	Rat		150 mg/kg	NOAEL	
"	Ingestion	Rat	Liver	69 mg/m3	LOAEL	
"	Inhalation	Rat	Blood	152 mg/m3	LOAEL	

Aspiration Hazard

Name (Components)	Value
2-Propanol	Not likely to be an aspiration hazard.

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CAS No:67-63-0	
Distillate(Petroleum), Light Naphthenic Severely Hydrotreated CAS No: 64742-53-6	Aspiration Hazard Toxicity Category 1
Ethylene glycol monobutyl ether CAS No:111-76-2	Aspiration Hazard Toxicity Category 1

12.Ecological information

- 12.1 **Ecotoxicity (aquatic and terrestrial, where available):** Toxic to aquatic life. Toxic to aquatic life with long lasting effects (LC50 or EC50 >1 mg/l).
- 12.2 **Persistence and degradability:** Not determined
- 12.3 **Bioaccumulative potential:** Not determined
- 12.4 **Mobility in soil:** Not determined
- 12.5 **Other adverse effects (such as hazardous to the ozone layer):** Not determined

13.Disposal considerations

- 13.1 **Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:** Dispose of contents/ container in accordance with the local/regional/national/international regulations. Do not contaminate any lakes, streams, ponds, or underground water supplies.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

14.Transport information

Because this product is produced and shipped in several different container sizes, domestically and internationally, please consult your transportation specialist for the proper shipping name and class.

- 14.1 **UN number:** 2924
- 14.2 **UN proper shipping name:** Flammable liquids, corrosive, n.o.s., (Isopropanol, Quaternary ammonium salts)
- 14.3 **Transport hazard class(es):** 3 and 8
- 14.4 **Packing group, if applicable:** III
- 14.5 **Environmental hazards (e.g., Marine pollutant (Yes/No)):** Not determined
- 14.6 **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not determined
- 14.7 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises:** Not determined

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Additional Information:

15.Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question:

- **OSHA Hazard Communication Standard:** This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200 (see section 2).
- **TSCA:** Components of this product are listed on the TSCA Inventory.
- **SARA Title III, Section 302 (Extremely Hazardous Substances):** None
- **SARA Title III, Section 313:** This product contains 2-Butoxyethanol (CAS No: 111-76-2 ≤ 5.00%) and 2-propanol (CAS No: 67-63-0 ≤ 10.00%) which is subject to the reporting requirements of SARA Title III, Section 313.
- **SARA Title III, Section 311/312 Classifications:**

Fire Hazard: Yes	Pressure Hazard: No	Reactivity Hazard: No
Immediate Hazard: Yes	Delayed Hazard: Yes	
- **CERCLA Hazardous Substances:** This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Contact local authorities to determine if other reporting requirements apply.
- **Clean Air Act Section 112(r):** None
- **CLEAN WATER ACT/OIL POLLUTION ACT:** This product is classified as an oil under Section 311 of the Clean Water Act (40CFR110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water or in waterways/sewers which lead to surface water must be reported to the National Response Center at (800) 424-8802.
- **CA PROP 65:**
WARNING! This product contains a chemical known to the State of California to cause cancer: None
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16.Other information including date of preparation or last revision

Full text of H-Statements referred to under sections 2 and 3:

H225: Highly flammable liquid and vapor.
H226: Flammable liquid and vapor.
H227: Combustible liquid.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H303: May be harmful if swallowed
H304: May be fatal if swallowed and enters airways.
H311: Toxic in contact with skin.
H312: Harmful in contact with skin.

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H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.
H401: Toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
Asp Tox.1: Aspiration Toxicity Category 1
Acute Tox.3 or 4: Acute Toxicity Category 3 or 4
Eye Dam/Irrit.1 or 2 or 3: Eye Damage/Irritation Category 1 or 2 or 3
Flam. Liq.2 or 3 or 4: Flammable Liquid Category 2 or 3 or 4
Skin Corr./Irrit.1 or 2 or 3: Skin Corrosion/Irritation Category 1 or 2 or 3
STOT SE3: Specific Target Organ Toxicity Single Exposure Category 3

Sources of key data used to compile the Safety Data Sheet:

International Agency for Research on Cancer
International Air Transport Association: Dangerous Goods Regulations.
International Maritime Organization: International Maritime Dangerous Goods Code
Components supplier data
Globally harmonized system of classification and labeling of chemicals (GHS Rev.5th e.2013)
European Chemicals Agency website
EU Registration, Evaluation and Restriction of Chemicals regulation (REACH): Classification and Labeling Inventory
US California Proposition 65
US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
US Department of Health & Human Services. National Toxicology Program
US Department of Transport DOT 49 CFR
US National Fire Protection Association (NFPA) 704
US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)
US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication Standard)
US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)
US Superfund Amendments and Reauthorization Act (SARA) Title III Sections 302; 311/312 ; 313
US Toxic Substances Control Act (TSCA)

Key or legend to abbreviations and acronyms used in the safety data sheet:

ACGIH - American Conference of Governmental Industrial Hygienists
CAS No - Chemical Abstract System No.
CERCLA- US Comprehensive Environmental Response, Compensation, and Liability Act
COC - Cleveland Open Cup (flash and fire point)
DOT -Department Of Transportation
EPA - Environmental Protection Agency
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods code
mg/m³ - milligrams per cubic meter
mg/l - milligrams per liter
NIOSH - National Institute for Occupational Safety and Health
NFPA- US National Fire Protection Association

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NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
OEL-Occupational Exposure Limits
PEL - Permissible Exposure Limits
ppb - Parts Per Billion
ppm - Parts Per Million
PMCC - Pensky-Martin Closed Cup (flash point)
RCRA - EPA Resource Conservation and Recovery Act
SARA - Superfund Amendments and Reauthorization Act Title I, II, III
SDS - Safety Data Sheet
STEL- Short Term Exposure Limit
TCC - Tag Closed Cup (flash point)
TLV - Threshold Limit Value
TWA - Time Weighted Average Exposure
< - Less than
> - More than

Procedure used to derive the classification for mixtures according to Regulations 29 CFR 1900.1200 and GHS Rev.5th e.2013:

Calculation method: Classification of mixtures based on ingredients of the mixture.

LEGAL DISCLAIMER:

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