

## SAFETY DATA SHEET      Blue Guard

SDS No: 3007-2

Version: 1.1 (REG\_29 CFR 1910.1200/REG\_GHS Rev.5<sup>th</sup> 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:** Blue Guard

**1.2 Other means of identification:** Not Applicable

**1.3 Recommended use of the chemical and restrictions on use:** An automotive interior and exterior dressing. 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.5<sup>th</sup> e.2013:**

This product is classified as hazardous.

Flammable Liquid Category 2

Aspiration Toxicity Category 1

Reproductive Toxicity Category 2

Eye Irritation Category 2

Skin Irritation Category 2

Specific Target Organ Toxicity Single Exposure Category 3 (Central Nervous System)

Specific Target Organ Toxicity Repeated Exposure Category 2 (Liver, Kidney, Central nervous system)

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.5<sup>th</sup> e.2013:**

**Signal word:** Danger

**Hazard statement(s):**

- **Physical Hazards:** H225: Highly Flammable liquid and vapor.
- **Health Hazards:** H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H320: Causes eye irritation.  
H336: May cause drowsiness or dizziness (Central Nervous System).  
H361f: Suspected of damaging fertility.  
H373: May cause damage to organs (Liver, Kidney, Central nervous system) through prolonged or repeated exposure.
- **Environmental Hazard:** 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.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- 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.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear protective gloves and eye protection.

#### Response:

- P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
- P314: Get medical advice/attention if you feel unwell.
- 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**  
Repeated exposure may cause skin dryness and cracking.
- 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
Solvent naphtha (Petroleum), medium aliphatic	64742-88-7	265-191-7	≤ 60.00	Asp Tox.1 H304 Flam Liq.3 H226 Skin Irrit.2 H316 STOT SE3 H336 STOT RE2 H373 Aquatic Chronic 2 H411
Hexane	110-54-3	203-777-6	≤ 15.00	Asp Tox.1 H304 Flam Liq.2 H225 Skin Irrit.2 H315 Eye Irrit.2 H320 STOT SE3 H336 Repr.2 H361f Aquatic Chronic 2 H411
Mixed Xylenes	1330-20-7	215-535-7	≤ 3.00	Flam Liq.3 H226 Asp Tox.1 H304 Skin Irrit.2 H315 Acute Tox.4 H312 Acute Tox.4 H332 STOT SE3 H337 STOT RE2 H373 Eye Irrit.2 H320

### 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 immediately. Potential for chemical pneumonitis.

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**4.2 Most important symptoms/effects, acute and delayed:** Fever greater than 101° F (38° C), shortness of breath, chest congestion or continued coughing or wheezing, irritation of the nose and throat and signs of nervous system depression (e.g. headache, nausea, drowsiness, dizziness, fatigue, visual impairment, difficulty breathing, and loss of coordination). Persistent skin or eye irritation due to contact with the product.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary:** Fever greater than 101° F (38° C), shortness of breath, chest congestion or continued coughing or wheezing. Persistent skin or eye irritation due to contact with the product.

### 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. Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Centre at (800) 424-8802. This material is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Petroleum Exclusion. Therefore, releases to the environment may not be reportable under CERCLA.

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### 7. Handling 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. 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 150°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
Naphtha (Petroleum), Medium Aliphatic CAS No: 64742-88-7	TWA (vapor, 8 hr)	2000 mg/m <sup>3</sup> 500 ppm	OSHA Table Z-1
Hexane CAS No: 110-54-3	TWA (vapor, 8 hr)	1800 mg/m <sup>3</sup> 500 ppm	OSHA Table Z-1
Mixed Xylene CAS No: 1330-20-7	TWA (vapor, 8 hr)	435 mg/m <sup>3</sup> 100 ppm	OSHA Table Z-1

**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

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- **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: Nitrile rubber
- **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

<b>Appearance (physical state, color, etc.):</b>	Liquid, Blue color
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not Determined
<b>pH:</b>	Not Applicable
<b>Melting point/freezing point:</b>	Not Determined
<b>Initial boiling point and boiling range:</b>	Not Determined
<b>Flash point:</b>	<23°C(73.4°F)
<b>Evaporation rate:</b>	Not Determined
<b>Flammability (solid, gas):</b>	Not Applicable
<b>Upper/lower flammability or explosive limits:</b>	Not Determined
<b>Vapor pressure:</b>	Not Determined
<b>Vapor density:</b>	Not Determined
<b>Relative density:</b>	0.808 at 77°F (Water=1)
<b>Solubility(ies):</b>	Insoluble in water
<b>Partition coefficient: n-octanol/water:</b>	Not Determined
<b>Auto-ignition temperature:</b>	Not Determined
<b>Decomposition temperature:</b>	Not Determined
<b>Viscosity:</b>	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

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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:

#### 11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

- **Inhalation:** Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Do not breathe dust/fume/gas/mist/vapors/spray.
- **Ingestion:** May be fatal if swallowed and enters airways.
- **Skin contact:** Direct prolonged or repeated contact cause moderate irritation. Repeated exposure may cause skin dryness and cracking.
- **Eye contact:** Direct contact may cause mild eye irritation with redness and tearing.

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
n-Hexane CAS No: 110-54-3	Dermal	Rabbit	LD50>2000 mg/kg
“	Ingestion	Rat	LD50>5000 mg/kg
“	Inhalation-vapor (4 hours)	Rat	LC50>171.6 mg/l
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	Dermal	Rat	LD50>2000 mg/kg
“	Ingestion	Rat	LD50>5000 mg/kg
“	Inhalation-vapor (4 hours)	Rat	LC50 > 5.28 mg/l
Mixed Xylene CAS No:1330-20-7	Dermal	Rabbit	LD50>1100 mg/kg
“	Ingestion	Rat	LD50>3523 mg/kg
“	Inhalation-vapor (4 hours)	Rat	LC50>6700 ppm

#### Skin Corrosion/Irritation

Name (Components)	Species	Value
n-Hexane CAS No: 110-54-3	Rabbit (24 hours)	Moderate irritation
Solvent naphtha (Petroleum),	Rabbit (24 hours)	Moderate irritation



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medium aliphatic CAS No: 64742-88-7		
Mixed Xylene CAS No:1330-20-7	Rabbit (24 hours)	Moderate irritation

### Serious Eye Damage/Irritation

Name (Components)	Species	Value
n-Hexane CAS No: 110-54-3	Rabbit (24 hours)	Mild irritation
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	Rabbit	Mild irritation
Mixed Xylene CAS No:1330-20-7	Rabbit	Moderate irritation

### Respiratory or skin sensitization

Name (Components)	Species	Value
n-Hexane CAS No: 110-54-3	Human and Animal	Not a sensitizer
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	Human and Animal	Not a sensitizer
Mixed Xylene CAS No:1330-20-7		No data available

### Germ Cell Mutagenicity

Name (Components)	Route	Value
n-Hexane CAS No: 110-54-3	Not specified	Positive results (chromosomal damage in the bone marrow cells) obtained for rats exposed by inhalation to n-hexane.
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	In Vitro	No data available
"	In Vivo	No data available
Mixed Xylene CAS No:1330-20-7	In Vitro	Negative
"	In Vivo	Negative

### Carcinogenicity

Name (Components)	Route	Species	Value
n-Hexane CAS No: 110-54-3	Not Specified	Not Specified	Not listed by ACGIH, IARC, NTP, or CA Prop 65
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	Not Specified	Not Specified	No data available
Mixed Xylene CAS No:1330-20-7	Oral	Mouse	Negative



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### Reproductive toxicity

Name (Components)	Route	Species	Value	Test Result	Exposure Duration
n-Hexane CAS No: 110-54-3	Not specified	Rat	Repr.2	Positive	Not specified
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	Oral/Dermal	Rat	Not Classified		
Mixed Xylene CAS No:1330-20-7	Inhalation	Rat	Not Classified		

### Specific Target Organ Toxicity - single exposure

Name (components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
n-Hexane CAS No: 110-54-3	Inhalation		Central Nervous System	May cause drowsiness or dizziness	NOAEL Not available	
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	Inhalation		Central Nervous System	May cause drowsiness or dizziness	NOAEL Not available	
Mixed Xylene CAS No:1330-20-7	Inhalation		Respiratory System	STOT SE 3 H335		

### Specific Target Organ Toxicity - repeated exposure

Name (components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
n-Hexane CAS No: 110-54-3		Rat	Kidney/Liver	Not considered relevant to humans. Not Classified.		
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	Oral/Dermal	Rat		Local irritation		
Mixed Xylene CAS No:1330-20-7	Inhalation/Oral	Rat	Kidney/Liver/CNS	STOT RE 2 H373		

### Aspiration Hazard

Name (Components)	Value
n-Hexane CAS No: 110-54-3	Aspiration Hazard Toxicity Category 1
Solvent naphtha (Petroleum), medium aliphatic CAS No: 64742-88-7	Aspiration Hazard Toxicity Category 1
Mixed Xylene CAS No:1330-20-7	Aspiration Hazard Toxicity Category 1

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### 12. Ecological information

- 12.1 **Ecotoxicity (aquatic and terrestrial, where available):** Not determined
- 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:** 1268
- 14.2 **UN proper shipping name:** Petroleum Distillates, N.O.S., (Solvent naphtha, Hexanes, Mixed Xylenes)
- 14.3 **Transport hazard class(es):** 3
- 14.4 **Packing group, if applicable:** II
- 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

### 15. Regulatory information

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



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H320: Causes eye irritation.  
H336: May cause drowsiness or dizziness.  
H361f: Suspected of damaging fertility.  
H373: May cause damage to organs (Liver, Kidney, Central nervous system) through prolonged or repeated exposure.  
Asp Tox.1: Aspiration Toxicity Category 1  
Aquatic Chronic 2 or 3: Aquatic Chronic Category 2 or 3  
Eye Irrit.2: Eye Irritation Category 2  
Repr.2: Reproductive Toxicity Category 2  
Skin Irrit.2 or 3: Skin Irritation Category 2 or 3  
STOT SE3 : Specific Target Organ Toxicity Single Exposure Category 3  
STOT RE2 : Specific Target Organ Toxicity Repeated Exposure Category 2

### 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.5<sup>th</sup> 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/m<sup>3</sup> - milligrams per cubic meter  
mg/l - milligrams per liter  
NIOSH - National Institute for Occupational Safety and Health  
NFPA- US National Fire Protection Association  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PEL - Permissible Exposure Limits  
ppb - Parts Per Billion  
ppm - Parts Per Million

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PMCC - Pinsky-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.5<sup>th</sup> e.2013:**

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

### **LEGAL DISCLAIMER:**

*The information contained in this document is based upon data believed to be reliable at the time of preparing this SDS and relates only to the matters specifically mentioned in this document.*

*Although J.B.Chemical Co. has used reasonable skill and care in the preparation of this information, in the absence of any overriding obligations arising under a specific contract, no representation, warranty (express or implied), or guarantee is made as to the suitability, accuracy, reliability or completeness of the information; nothing in this document shall reduce the user's responsibility to satisfy itself as to the suitability, accuracy, reliability, and completeness of such information for its particular use; there is no warranty against intellectual property infringement; and J.B.Chemical Co. shall not be liable for any loss, damage or injury that may occur from the use of this information. No statement shall be construed as an endorsement of any product or process. For greater certainty, before use of information contained in this document, particularly if the product is used for a purpose or under conditions which are abnormal or not reasonably foreseeable, this information must be reviewed with the supplier of such information. J.B.Chemical Co. also does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.*

**Prepared by:** J.B.Chemical Regulatory Affairs

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