

SAFETY DATA SHEET Fabric Spot Remover

SDS No: 4022-1

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:** Fabric Spot Remover
- 1.2 Other means of identification:** Fabric Spot Cleaner
- 1.3 Recommended use of the chemical and restrictions on use:** A solvent-based fabric and carpet spot remover. 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 2
Aspiration Toxicity Category 1
Carcinogenicity Category 2
Skin Irritation Category 2
Skin Sensitization Category 1B
Eye Irritation Category 2
Reproductive Toxicity Category 2
Specific Target Organ Toxicity Single Exposure Category 3 (Central Nervous System)
Aquatic Chronic Category 3
- 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:** H225: Highly Flammable liquid and vapor.
 - **Health Hazards:** H304: May be fatal if swallowed and enter airways.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H320: Causes eye irritation.
H351: Suspected of causing cancer.
H361f: Suspected of damaging fertility.
H336: May cause drowsiness or dizziness (Central Nervous System).

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- **Environmental Hazard:** H412: Harmful to aquatic life with long lasting effects.

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.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/eye protection.

Response:

- 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.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P312: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- 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.
- P331: Do Not induce vomiting.
- P362: Take off contaminated clothing and wash before reuse.
- P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage:

- P403+P235+P233: Store in a well-ventilated place. Keep cool. Keep container tightly closed.
- 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
Dichloromethane	75-09-2	200-838-9	<23.00	Acute Tox.4 H302 Carc.2 H351 Eye Irrit.2B H320 Skin Irrit.2 H315 STOT SE.3 H336
Naphtha(Petroleum), Hydrotreated Heavy	64742-48-9	265-150-3	≤ 55.00	Asp Tox.1 H304 Flam Liq.3 H226 Skin Irrit.3 H316 STOT SE.3 H336
Tetrachloroethylene	127-18-4	204-825-9	1.00-7.00	Carc.2 H351 Eye Irrit.2B H320 Skin Irrit.2 H315 Skin Sens.1B H317 STOT SE.3 H336 Aquatic Chronic 2 H411
Hexane	110-54-3	203-777-6	≤ 16.00	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

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.

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

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depression (e.g. headache, nausea, drowsiness, dizziness, fatigue, visual impairment, difficulty breathing, and loss of coordination). Persistent eye and skin irritation.

- 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 eye and skin irritation.

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.

7.Handeling and storage

- 7.1 Precautions for safe handling:**

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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. 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
Dichloromethane CAS No:75-09-2	TWA (vapor,8 hr)	25 ppm	OSHA PEL
Naphtha(Petroleum), Hydrotreated Heavy CAS No:64742-48-9	*RCP TWA(vapor)	1200 mg/m3	ExxonMobil
Tetrachloroethylene CAS No:127-18-4	TWA (8 hr)	100 ppm	OSHA PEL
Hexane CAS No:110-54-3	TWA(vapor,8 hr)	1800 mg/m3 500 ppm	OSHA Table Z-1

* Reciprocal Calculation Procedure

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

Appearance (physical state, color, etc.):	Liquid, colorless
Odor:	Characteristic
Odor threshold:	Not Determined
pH:	Not Applicable
Melting point/freezing point:	Not Determined
Initial boiling point and boiling range:	Not Determined
Flash point:	< 23°C(73.4°F)
Evaporation rate:	Not Determined
Flammability (solid, gas):	Not Applicable
Upper/lower flammability or explosive limits:	Not Applicable
Vapor pressure:	Not Determined
Vapor density:	Not Determined
Relative density:	0.861 at 77°F (Water=1)
Solubility(ies):	Insoluble in water
Partition coefficient: n-octanol/water:	Not Determined
Auto-ignition temperature:	Not Applicable
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

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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 contact causes moderate irritation. Repeated exposure may cause skin dryness and cracking.
- **Eye contact:** Direct contact causes 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
Naphtha(Petroleum), Hydrotreated Heavy CAS No: 64742-48-9	Dermal	Rat	LD50>3160 mg/kg
“	Ingestion	Rat	LD50>10000 mg/kg
“	Inhalation-vapor (4 hours)	Rat	Minimally toxic. Based on test data for the material. (ExxonMobil)
Dichloromethane CAS No:75-09-2	Dermal		No data available
“	Ingestion	Rat	LD50>1600 mg/kg
“	Inhalation-vapor (4 hours)	Rat	LC50>52000 mg/m3
Tetrachloroethylene CAS No:127-18-4	Dermal		No data available
“	Ingestion	Rat	LD50>3000 mg/kg
“	Inhalation-vapor (4 hours)	Mouse	LC50>5200 ppm
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

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Skin Corrosion/Irritation

Name (Components)	Species	Value
Naphtha(Petroleum), Hydrotreated Heavy (CAS No: 64742-48-9)	Rabbit (24 hours)	Slight irritation
Dichloromethane CAS No:75-09-2	Rabbit (24 hours)	Moderate skin irritation
Tetrachloroethylene CAS No:127-18-4	Rabbit (24 hours)	Moderate skin irritation
n-Hexane CAS No: 110-54-3	Rabbit (24 hours)	Moderate irritation

Serious Eye Damage/Irritation

Name (Components)	Species	Value
Naphtha(Petroleum), Hydrotreated Heavy (CAS No: 64742-48-9)	Rabbit (24 hours)	Minimally irritating
Dichloromethane CAS No:75-09-2	Rabbit (24 hours)	Mild eye irritation
Tetrachloroethylene CAS No:127-18-4	Rabbit (24 hours)	Mild eye irritation
n-Hexane CAS No: 110-54-3	Rabbit (24 hours)	Mild irritation

Respiratory or skin sensitization

Name (Components)	Species	Value
Naphtha(Petroleum), Hydrotreated Heavy (CAS No: 64742-48-9)	Human and Animal	Not a sensitizer
Dichloromethane CAS No:75-09-2		Not a sensitizer
Tetrachloroethylene CAS No:127-18-4	Human and Animal	Skin Sensitizer 1B
n-Hexane CAS No: 110-54-3	Human and Animal	Not a sensitizer

Germ Cell Mutagenicity

Name (Components)	Route	Value
Naphtha(Petroleum), Hydrotreated Heavy (CAS No: 64742-48-9)	In Vitro	Not mutagenic
“	In Vivo	Not mutagenic
Dichloromethane CAS No:75-09-2	In Vitro	No data available
“	In Vivo	DNA damage
Tetrachloroethylene CAS No:127-18-4	In Vitro	No data available
	In Vivo	No data available

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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.
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Carcinogenicity

Name (Components)	Route	Species	Value
Naphtha(Petroleum), Hydrotreated Heavy CAS No: 64742-48-9	Dermal	Not Specified	Repeated exposure may cause skin tumor promotion in experimental animals.
Dichloromethane CAS No:75-09-2	Inhalation	Rat	IARC: Group 2B OSHA/NTP: Listed
Tetrachloroethylene CAS No:127-18-4			IARC: Group 2A ACGIH/NTP: Listed
n-Hexane CAS No: 110-54-3	Not Specified	Not Specified	Not listed by ACGIH, IARC, NTP, or CA Prop 65

Reproductive toxicity

Name (Components)	Route	Species	Value	Test Result	Exposure Duration
Naphtha(Petroleum), Hydrotreated Heavy CAS No: 64742-48-9			Not Classified		
Dichloromethane CAS No:75-09-2			No data available		
Tetrachloroethylene CAS No:127-18-4			No data available		
n-Hexane CAS No: 110-54-3	Not specified	Rat	Repr.2	Positive	Not specified

Specific Target Organ Toxicity - single exposure

Name (components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
Naphtha(Petroleum), Hydrotreated Heavy CAS No: 64742-48-9	Inhalation		Central Nervous System	May cause drowsiness or dizziness	NOAEL Not available	
Dichloromethane CAS No:75-09-2	Inhalation		Central Nervous System	May cause drowsiness or dizziness	NOAEL Not available	
Tetrachloroethylene CAS No:127-18-4			Central Nervous System	May cause drowsiness or dizziness	NOAEL Not available	
n-Hexane CAS No: 110-54-3	Inhalation		Central Nervous System	May cause drowsiness or dizziness	NOAEL Not available	

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Specific Target Organ Toxicity - repeated exposure

Name (components)	Route	Species	Target Organ	Value	Test Result	Exposure Duration
Naphtha(Petroleum), Hydrotreated Heavy CAS No: 64742-48-9		Rat	Kidney/Liver	Not considered relevant to humans. Not Classified.		
Dichloromethane CAS No:75-09-2				No data available		
Tetrachloroethylene CAS No:127-18-4				No data available		
n-Hexane CAS No: 110-54-3		Rat	Kidney/Liver	Not considered relevant to humans. Not Classified.		

Aspiration Hazard

Name (Components)	Value
Naphtha(Petroleum), Hydrotreated Heavy CAS No: 64742-48-9	Aspiration Hazard Toxicity Category 1
Dichloromethane CAS No:75-09-2	No data available
Tetrachloroethylene CAS No:127-18-4	No data available
n-Hexane CAS No: 110-54-3	Aspiration Hazard Toxicity Category 1

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

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▪ **CA PROP 65:**

WARNING! This product contains a chemical known to the State of California to cause cancer:

Dichloromethane CAS No: 75-09-2 ≤ 9.00

Tetrachloroethylene CAS No: 127-18-4 ≤ 43.00

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.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H316: Causes mild skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H320: Causes eye irritation.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer.

H361f: Suspected of damaging fertility.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Asp Tox.1: Aspiration Toxicity Category 1

Aquatic Chronic 2 or 3: Aquatic Chronic Category 2 or 3

Carc.2: Carcinogenicity Category 2

Eye Irrit.2: Eye Irritation Category 2

Flam Liq.2 or 3: Flammable Liquid Category 2 or 3

Skin Irrit.2 or 3: Skin Irritation Category 2 or 3

Skin Sens.1B: Skin Sensitization Category 1B

STOT SE.3: 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

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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
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
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:

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

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