

D-SOLV

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product Name : D-SOLV
Manufacturer Product Number : 1047B

1.2 Other Means of Identification

Other Identifiers : Not Available

1.3 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use : Degreaser for use in manufacturing facilities.
Restrictions on Use : None Identified

1.4 Supplier Details

	Manufacturer Details	Supplier Details
Company Name	Chem-Pak Inc	Chem-Pak Inc
Address	242 Corning Way, Martinsburg, WV 25405 - United States	242 Corning Way, Martinsburg, WV 25405 - United States
Phone Number	304-262-1880	304-262-1880
Fax Number	304-262-9643	304-262-9643
Email	msds@chem-pak.com	msds@chem-pak.com
Website	http://www.chem-pak.com	http://www.chem-pak.com

1.5 24 hr Emergency Phone Number

Emergency Number : 800-255-3924
 Chem-Tel

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Press. Gas (Diss.)	H280	Physical Hazards	Gases under pressure Dissolved gas
Skin Irrit. 2	H315	Health Hazards	Skin corrosion/irritation Category 2
Eye Irrit. 2a	H319	Health Hazards	Serious eye damage/eye irritation Category 2A
Carc. 2	H351	Health Hazards	Carcinogenicity Category 2
Repr. 1a	H360	Health Hazards	Reproductive toxicity Category 1A
Stot Se 3	H335	Health Hazards	Specific target organ toxicity (single exposure) Category 3, Respiratory tract irritation
Stot Se 3	H336	Health Hazards	Specific target organ toxicity (single exposure) Category 3, Narcosis
Stot Re 2	H373	Health Hazards	Specific target organ toxicity (repeated exposure) Category 2
Aquatic Acute 3	H402	Environmental Hazards	Hazardous to the aquatic environment - Acute Hazard Category 3

2.2 Label Elements

Hazard Pictograms



Signal Word

Danger

Hazard Statements

H280 : Contains gas under pressure; may explode if heated
 H315 : Causes skin irritation
 H319 : Causes serious eye irritation
 H335 : May cause respiratory irritation



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	H336	: May cause drowsiness or dizziness
	H351	: Suspected of causing cancer
	H360	: May damage fertility or the unborn child
	H373	: May cause damage to organs through prolonged or repeated exposure
	H402	: Harmful to aquatic life
Precautionary Statements	P202	: Do not handle until all safety precautions have been read and understood.
	P260	: Do not breathe spray.
	P264	: Wash hands thoroughly after handling.
	P271	: Use only outdoors or in a well-ventilated area.
	P273	: Avoid release to the environment.
	P280	: Wear protective gloves and eye protection.
	P302+P352	: If on skin: Wash with plenty of water
	P304+P340	: If inhaled: Remove person to fresh air and keep comfortable for breathing
	P305+P351+P338	: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P308+P313	: If exposed or concerned: Get medical advice/attention.
	P314	: Get medical advice/attention if you feel unwell.
	P332+P313	: If skin irritation occurs: Get medical advice/attention.
	P337+P313	: If eye irritation persists: Get medical advice/attention.
	P362+P364	: Take off contaminated clothing and wash it before reuse.
	P403	: Store in a well-ventilated place.
P410+P403	: Protect from sunlight. Store in a well-ventilated place.	
P501	: Dispose of contents/container to local regulations	

2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : None Identified.

2.4 Unknown acute toxicity

8.33% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
8.33% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
8.33% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Mixture

Substance / Mixture : Mixture

3.2 Composition

Substance name	CAS Number	% wt*	Classification
1-Bromopropane	106-94-5	>= 60	Flam. Liq. 4, H227 Acute Tox. 1 (Inhalation:vapour), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Repr. 1A, H360 STOT SE 3, H335 STOT SE 3, H336 STOT RE 2, H373 Aquatic Acute 3, H402
Carbon Dioxide	124-38-9	1 - 5	Press. Gas (Comp.), H280



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Substance name	CAS Number	% wt*	Classification
1,2-Epoxybutane	106-88-7	0.1 - 1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 3, H402

Full text of hazard classes and H-statements : see section 16

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 - FIRST-AID MEASURES

4.1 Description of First-Aid Measures

General Measures	: If exposed or concerned: Get medical advice/attention.
Inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
Skin Contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
Eye Contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	: Call a poison center or a doctor if you feel unwell.
First-Aid Responder Protection	: Wear adequate personal protective equipment based on the nature and severity of the emergency.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms of Exposure	: None Identified.
Delayed Effects	: No known delayed effects.
Immediate Effects	: Asphyxia.
Chronic Effects	: No known chronic effects.
Target Organs	: Cardiovascular System, Respiratory System.

4.3 Indication of Immediate Medical Attention and Special Treatment

Notes to Physician	: Treat symptomatically.
Specific Treatments/Antidotes	: No Information Available.
Medical Conditions Aggravated	: May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Extinguishing Media	: Water, carbon dioxide, dry chemical, universal aqueous film forming foam.
Unsuitable Media	: Water jet.

5.2 Specific Hazards Arising from the Chemical or Mixture

Hazardous Combustion Products	: Decomposition products may include: oxides of carbon, smoke, vapors. See also Section 10.6.
Specific Hazards During Firefighting	: Contents under pressure. In a fire or if heated, a pressure increase will occur which may result in container bursting.

5.3 Special Protective Actions for Fire-Fighters

Firefighting Instructions	: Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure.
Protection during Firefighting	: Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.



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SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- For Non-Emergency Personnel** : No action should be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.
- For Emergency Personnel** : Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.

6.2 Environmental Precautions

- Environmental Precautions** : Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

6.3 Methods and Materials for Containment and Cleaning up

- Containment Procedures** : Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents.
- Cleanup Procedures** : Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.
- Other Information** : Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned.
- Prohibited Materials** : Combustible absorbent material such as sawdust. Use of equipment that may cause sparking.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- General Handling Precautions** : KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation.
- Hygiene Recommendations** : Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.

7.2 Conditions for Safe Storage Including Any Incompatibilities

- Storage Requirements** : Storage of individual cans should be done in an area below 55°C (120 °F), and away from heat sources. Ensure can is in a secure place to prevent knocking over and accidental rupture. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended.
- Incompatibilities** : Segregate storage away from materials indicated in Section 10.
- NFPA 30B Classification** : This product is classified as a Level 1 Aerosol per NFPA 30B

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Carbon Dioxide (124-38-9)		
ACGIH	ACGIH TWA (mg/m ³)	5000 ppm
ACGIH	ACGIH Ceiling (mg/m ³)	30000 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	9000 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	5000 ppm
NIOSH	US IDLH (ppm)	40000 ppm
NIOSH	NIOSH REL (TWA) (ppm)	5000 ppm
NIOSH	NIOSH REL (STEL) (ppm)	30000 ppm
California	California PEL (TWA) (mg/m ³)	9000 mg/m ³
California	California PEL (TWA) (ppm)	5000 ppm



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Carbon Dioxide (124-38-9)

California	California PEL (STEL) (mg/m ³)	54000 mg/m ³
California	California PEL (STEL) (ppm)	30000 ppm

1-Bromopropane (106-94-5)

ACGIH	ACGIH TWA (mg/m ³)	0.1 ppm
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1,2-Epoxybutane (106-88-7)

AIHA	WEEL TWA (ppm)	2 ppm
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8.2 Exposure Controls

Engineering Measures	: Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.
Personal Protective Equipment	
Eye / Face Protection	: Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.
Hand Protection	: Chemical-resistant gloves, tested according to ASTM F903-17.
Remarks	: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.
Skin and Body Protection	: For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.
Respiratory Protection	: An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits.
Compliance	: If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.
Other Protective Equipment	: Safety showers and eye-wash stations should be available in the workplace near where the material will be used.
Environmental Exposure Controls	: Avoid release to the environment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Properties

Boiling Point	68.00 °C	Melting / Freezing Point	-110.00 °C
Flash Point, Liquid	-14.99 °C		
Explosive Limits	LEL: 3.80 UEL: 9.50 vol %	Autoignition Temperature, Liquid	460.00 °C
Flammability	Non-Flammable Aerosol	Density	1.010 g/cm ³
Molecular Weight	Not Available	Weight	8.428 lbs/gal
Vapor Pressure	Not Available	pH	Not Available
Vapor Density	Not Available	Evaporation Rate (nBAC=1)	Not Available
Viscosity	Not Available	Partition Coefficient (Log Pow)	Not Available
Odor Threshold	Not Available	Refractive Index	Not Available
Physical State	Pressurized Product	Heat Of Combustion	6790.48 BTU/lb
Appearance / Color	White water liquid	Water Solubility	Not Available
Odor	Solvent	Decomposition Temperature	Not Available

9.2 Environmental Properties

Percent Volatile	91.68 % wt	VOC Regulatory	925.92 g/L (7.73 lbs/gal)
Percent VOC	91.68 % wt	VOC Actual	925.92 g/L (7.73 lbs/gal)
Percent HAP	0.96 % wt	HAP Content	9.70 g/L (0.08 lbs/gal)
Global Warming Potential	0.32 GWP	Maximum Incremental Reactivity	0.3910 g O ₃ /g
Ozone Depletion Potential	0.00 ODP		

SECTION 10 - STABILITY AND REACTIVITY



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10.1 Reactivity

Reactivity : No specific test data related to reactivity is available for this products or its ingredients.

10.2 Chemical Stability

Chemical Stability : This product is stable.

10.3 Possibility of Hazardous Reactions

Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions are not expected to occur.

10.4 Conditions to Avoid

Conditions to Avoid : None Identified.

10.5 Incompatible Materials

Materials to Avoid : None Identified.

10.6 Hazardous Decomposition Products

Thermal Decomposition : Hydrogen Bromide.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

1-Bromopropane (CAS: 106-94-5 / EC: 203-445-0)

LD50 Oral (Rat)	3600 mg/kg (RTECS)
LD50 Dermal (Rat)	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 Dermal (Rabbit)	135000 mg/kg (Sigma-Aldrich)
LC50 Inhalation (Rat)	0
LC50 Inhalation (Rat)	17820 ppm/4h (ChemInfo)

1,2-Epoxybutane (CAS: 106-88-7 / EC: 203-438-2)

LD50 Oral (Rat)	500 mg/kg (RTECS)
LD50 Dermal (Rabbit)	1743 mg/kg (ChemInfo)
LC50 Inhalation (Rat)	6550 ppm/4h (ChemInfo)

Routes Of Exposure	: Inhalation.
Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure	: See Section 4.2
Skin Corrosion/Irritation	: Causes skin irritation.
Eye Damage/Irritation	: Causes serious eye irritation.
Respiratory or Skin Sensitization	: Not classified
Germ Cell Mutagenicity	: Not classified
Reproductive Toxicity	: May damage fertility or the unborn child.
STOT-Single Exposure	: May cause respiratory irritation. May cause drowsiness or dizziness.
STOT-Repeated Exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard	: Not classified
Vaporizer	: Aerosol
Carcinogen Data	: The following ingredients are listed as known or suspected carcinogens:

1-Bromopropane (CAS: 106-94-5 / EC: 203-445-0)

IARC group	2B - Possibly Carcinogenic to Humans
National Toxicity Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

SECTION 12 - ECOLOGICAL INFORMATION

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12.1 Ecotoxicity and Ecological Properties

Carbon Dioxide (124-38-9)

Log Pow	0.83
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1-Bromopropane (106-94-5)

LC50 Fish	24.3 mg/l Rainbow Trout - 96hr
EC50 Daphnia	99.3 mg/l Water Flea - 48hr
Persistence and Degradability	Biodegradability 70% / 28 days.
BCF Fish	11.29 l/kg (BCFBAF v3.00, Pisces, Calculated value)
BCF Other Aquatic Organisms	23 (QSAR)
Log Pow	2.1 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	1.79 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)

1,2-Epoxybutane (106-88-7)

LC50 Fish	100 - 500 mg/l Golden Orfe - 96hr
EC50 Daphnia	69.8 mg/l Water Flea - 48hr
Persistence and Degradability	Biodegradability 15% / 28 days.
Chemical Oxygen Demand	1.975 g O ₂ /g substance
Theoretical Oxygen Demand	2.44 g O ₂ /g substance
Log Pow	0.68 (Practical experience/observation, Other, 25 °C)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	0.652 (log Koc, SRC PCKOCWIN v1.66, Calculated value)

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Disposal : Characteristics and waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations.

Waste Disposal Of Packaging : In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.

Landfill Precautions : Not Available.

Incineration Precautions : **** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **.**

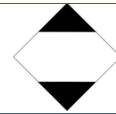
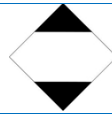
SECTION 14 - TRANSPORTATION INFORMATION

14.1 UN Number	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Number	UN1950	UN1950	UN1950
14.2 UN Proper Shipping Name	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Proper Shipping Name	Aerosols, Limited Quantity	Aerosols, Non-Flammable, Limited Quantity	Aerosols, Limited Quantity
14.3 Transport Hazard Class(es)	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Transport Hazard Class(es)	2.2	2.2	2.2
Labels	None	2.2 - Non-flammable gas	None
Limited Quantity	Yes	Yes	Yes



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EmS Code : Not Applicable Not Applicable F-D S-U

14.4 Packing Group	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Packing Group	None	None	None
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14.5 Environmental Hazards	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
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Marine Pollutant	No	No	No
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14.6 Special Precautions

Precautions : None Identified

14.7 Transport in Bulk

Remarks : Not applicable for product as supplied

SECTION 15 - REGULATORY INFORMATION

15.1 Federal Regulations

SARA Section 313 : Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

1,2-Epoxybutane	CAS-No. 106-88-7	0.1 - 1%
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TSCA Section 12(b) : This product or mixture is not known to contain a chemical or chemicals subject to the export notification requirements of section 12(b) of the Toxic Substances Control Act (TSCA) and 40 CFR Part 707, subpart D

CERCLA Reportable Quantity : Chemical(s) subject to reporting requirements of Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) if released to the environment at or above the reportable quantity

1,2-Epoxybutane	CAS-No. 106-88-7	100 lb
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15.2 State Regulations

California Proposition 65 : This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Chemical Name	Hazard	Yes	No
1-Bromopropane (106-94-5)	Cancer	Yes	90.71 %
1-Bromopropane (106-94-5)	Developmental Toxicity	Yes	90.71 %
1-Bromopropane (106-94-5)	Reproductive Toxicity, Female	Yes	90.71 %
1-Bromopropane (106-94-5)	Reproductive Toxicity, Male	Yes	90.71 %

State Right-to-Know Lists : The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated

Carbon Dioxide (124-38-9)	U.S. - New Jersey - Right to Know Hazardous Substance List
1,2-Epoxybutane (106-88-7)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 - OTHER INFORMATION

Indication of changes :

Section	Changed item	Change
1	Supersedes	Added
1	SDS US Regulation reference	Added
1	Revision date	Modified
1	Date of issue	Modified
2.1	GHS-US classification	Modified
2.2	Precautionary statements (GHS US)	Modified
2.2	Hazard statements (GHS US)	Modified
4	Symptoms/effects after skin contact	Modified
4	Symptoms/effects after inhalation	Modified
4	Symptoms/effects after eye contact	Modified



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4	Symptoms/effects	Added
4.1	First-aid measures after skin contact	Modified
4.1	First-aid measures after inhalation	Modified
4.1	First-aid measures after eye contact	Modified
8.2	Compliance	Added
8.2	Remarks	Added
8.2	Hand Protection	Added
8.2	Environmental Exposure Controls	Added
8.2	Respiratory Protection	Added
9	Relative vapor density at 20 °C	Added
9	Flash point	Added
9	Melting point	Modified
9	Explosive limits (vol %)	Modified
9	Boiling point	Modified
9	Auto-ignition temperature	Modified
9	Specific gravity / density	Modified
12.1	Ecology - general	Modified
14	User Precautions	Added
14	EmS Code (Column 15 in IMDG Book 2)	Added

Disclaimer of Liability

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