SAFETY DATA SHEET

1. Identification

Product identifier	Bromodichloromethane S	olution	
Other means of identification			
Item	S-11339M1		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	Chem Service, Inc. 660 Tower Lane West Chester, PA 19380 United States		
Telephone	Toll Free Direct	800-452-9994 610-692-3026	
Website E-mail	www.chemservice.com info@chemservice.com		
Emergency phone number	Chemtrec US Chemtrec outside US	800-424-9300 +1 703-527-3887	,
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 2
Health hazards	Acute toxicity, oral		Category 3
	Acute toxicity, dermal		Category 3
	Acute toxicity, inhalation		Category 3
	Serious eye damage/eye irr	itation	Category 2A
	Reproductive toxicity		Category 1B
	Specific target organ toxicity	/, single exposure	Category 1
	Specific target organ toxicity	/, single exposure	Category 3 narcotic effects
	Specific target organ toxicity exposure	/, repeated	Category 1

Environmental hazards OSHA defined hazards Label elements

Signal word

Hazard statement



Danger

Not classified.

Not classified.

Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor. If eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	99.99% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.99% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methanol		67-56-1	99.99
Bromodichloromethane		75-27-4	0.01

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.
6. Accidental release meas	ures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Freezer storage (-20 - -25 °C)

Fire Protection Association (NFPA) 70, "National Electrical Code".

must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

practices.

Components	s for Air Contaminants Type		•	alue
Methanol (CAS 67-56-1)	PEL		26	60 mg/m3
			20	0 ppm
US. ACGIH Threshold Lim	nit Values			
Components	Туре		Va	alue
Methanol (CAS 67-56-1)	STEL		25	i0 ppm
	TWA		20	10 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards			
Components	Туре		Va	alue
Methanol (CAS 67-56-1)	STEL		32	25 mg/m3
			25	i0 ppm
	TWA		26	60 mg/m3
			20	0 ppm
logical limit values				
ACGIH Biological Exposu		Determinent	0	
Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
* - For sampling details, ple	ase see the source docu	ment.		
posure guidelines	. de sinu sti su			
US - California OELs: Skin Methanol (CAS 67-56-	•	Can h	e absorbed throu	ugh the skin
US - Minnesota Haz Subs				ign the skin.
Methanol (CAS 67-56-		Skin o	lesignation applie	es.
US - Tennessee OELs: Sk	•	- ·		
Methanol (CAS 67-56- US ACGIH Threshold Lim			e absorbed throu	ugh the skin.
Methanol (CAS 67-56-	-		er of cutaneous a	bsorption
US NIOSH Pocket Guide t				
Methanol (CAS 67-56-	•		e absorbed throu	•
propriate engineering ntrols	Ventilation rates sho exhaust ventilation, o	uld be matched to or other engineer posure limits hav	o conditions. If ap ing controls to ma e not been estab	Good general ventilation should be used. oplicable, use process enclosures, local aintain airborne levels below recommend lished, maintain airborne levels to an shower.
ividual protection measure Eye/face protection	s, such as personal pro Chemical respirator			ull facepiece.
Skin protection Hand protection	Wear appropriate ch	emical resistant ç	gloves.	
Other	Wear appropriate ch	emical resistant o	lothing. Use of a	n impervious apron is recommended.
Respiratory protection	Chemical respirator	with organic vapo	or cartridge and fu	ull facepiece.
Thermal hazards	Wear appropriate the	ermal protective o	lothing, when ne	cessary.
neral hygiene	Observe any medica	l surveillance red	uirements When	n using do not smoke. Keep away from fo

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.

Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-144.04 °F (-97.8 °C) estimated
Initial boiling point and boiling range	148.46 °F (64.7 °C) estimated
Flash point	53.6 °F (12.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	7.3 % estimated
Explosive limit - upper (%)	36 % estimated
Vapor pressure	169.3 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	2
Auto-ignition temperature	867.2 °F (464 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.78662 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.99 % estimated
Specific gravity	0.79 estimated
VOC	99.99 % estimated
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition	No hazardous decomposition products are known.

11. Toxicological information

products

Information on likely routes of exposure

Inhalation	Toxic if inhaled. May cause damage to organs by inhalation. May cause drowsiness or dizziness. Headache. Nausea, vomiting.
Skin contact	Toxic in contact with skin.
Eye contact	Causes serious eye irritation.
Ingestion	Toxic if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity	Toxic if inhal	ed. Toxic in contact with skin. Toxic if s	swallowed.
Components	Species		Test Results
Bromodichloromethane (CAS 75	-27-4)		
<u>Acute</u>			
Oral			
LD50	Rat		969 mg/kg
Methanol (CAS 67-56-1)			
<u>Acute</u>			
Dermal			
LD50	Rabbit		15800 mg/kg
Inhalation			
Vapor	Det		
LC50	Rat		82.1 mg/l, 6 Hours
Skin corrosion/irritation	Prolonged sk	kin contact may cause temporary irritati	on.
Serious eye damage/eye rritation	Causes serio	ous eye irritation.	
Respiratory or skin sensitizatio	on		
Respiratory sensitization	Not a respira	tory sensitizer.	
Skin sensitization	This product	is not expected to cause skin sensitiza	ition.
Germ cell mutagenicity	No data avai mutagenic or		nents present at greater than 0.1% are
Carcinogenicity	Not classifiat	ble as to carcinogenicity to humans.	
IARC Monographs. Overal	Evaluation of	Carcinogenicity	
Bromodichloromethane OSHA Specifically Regulat Not listed.		2B Possibly carcino (29 CFR 1910.1001-1053)	genic to humans.
US. National Toxicology P Bromodichloromethane			ated to be a Human Carcinogen
Reproductive toxicity	(CAS 75-27-4) Reasonably Anticipated to be a Human Carcinogen. May damage fertility or the unborn child.		
Specific target organ toxicity -	Causes damage to organs. May cause drowsiness or dizziness.		
single exposure			
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.		
12. Ecological informatio	n		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment		
	possibility the		
Components	possibility the		
	possibility the	at large or frequent spills can have a ha	armful or damaging effect on the environment
Components	possibility the	at large or frequent spills can have a ha	armful or damaging effect on the environment
Components Methanol (CAS 67-56-1)	possibility the	at large or frequent spills can have a ha Species	armful or damaging effect on the environment Test Results
Components Methanol (CAS 67-56-1) Aquatic	possibility the	at large or frequent spills can have a ha	armful or damaging effect on the environment
Components Methanol (CAS 67-56-1) Aquatic Acute		at large or frequent spills can have a ha Species	armful or damaging effect on the environment Test Results > 10000 mg/l, 48 hours
Components Methanol (CAS 67-56-1) Aquatic Acute Crustacea Fish Persistence and degradability	EC50 LC50	at large or frequent spills can have a ha Species Water flea (Daphnia magna)	armful or damaging effect on the environment Test Results > 10000 mg/l, 48 hours elas) > 100 mg/l, 96 hours
Components Methanol (CAS 67-56-1) Aquatic Acute Crustacea Fish Persistence and degradability Bioaccumulative potential	EC50 LC50 No data is av	at large or frequent spills can have a ha Species Water flea (Daphnia magna) Fathead minnow (Pimephales promination of any ingression of the degradability of any ingress	armful or damaging effect on the environment Test Results > 10000 mg/l, 48 hours elas) > 100 mg/l, 96 hours
Components Methanol (CAS 67-56-1) Aquatic Acute Crustacea Fish Persistence and degradability	EC50 LC50 No data is av	at large or frequent spills can have a ha Species Water flea (Daphnia magna) Fathead minnow (Pimephales promination of any ingression of the degradability of any ingress	armful or damaging effect on the environment Test Results > 10000 mg/l, 48 hours elas) > 100 mg/l, 96 hours
Components Methanol (CAS 67-56-1) Aquatic Acute Crustacea Fish Persistence and degradability Bioaccumulative potential Partition coefficient n-octa	EC50 LC50 No data is av	at large or frequent spills can have a ha Species Water flea (Daphnia magna) Fathead minnow (Pimephales prom- vailable on the degradability of any ingr Kow) 2 2 2	armful or damaging effect on the environment Test Results > 10000 mg/l, 48 hours elas) > 100 mg/l, 96 hours
Components Methanol (CAS 67-56-1) Aquatic Acute Crustacea Fish Persistence and degradability Bioaccumulative potential Partition coefficient n-octa Bromodichloromethane Solu	EC50 LC50 No data is av	at large or frequent spills can have a ha Species Water flea (Daphnia magna) Fathead minnow (Pimephales prom- vailable on the degradability of any ingu- Kow) 2 2 -0.77	armful or damaging effect on the environment Test Results > 10000 mg/l, 48 hours elas) > 100 mg/l, 96 hours

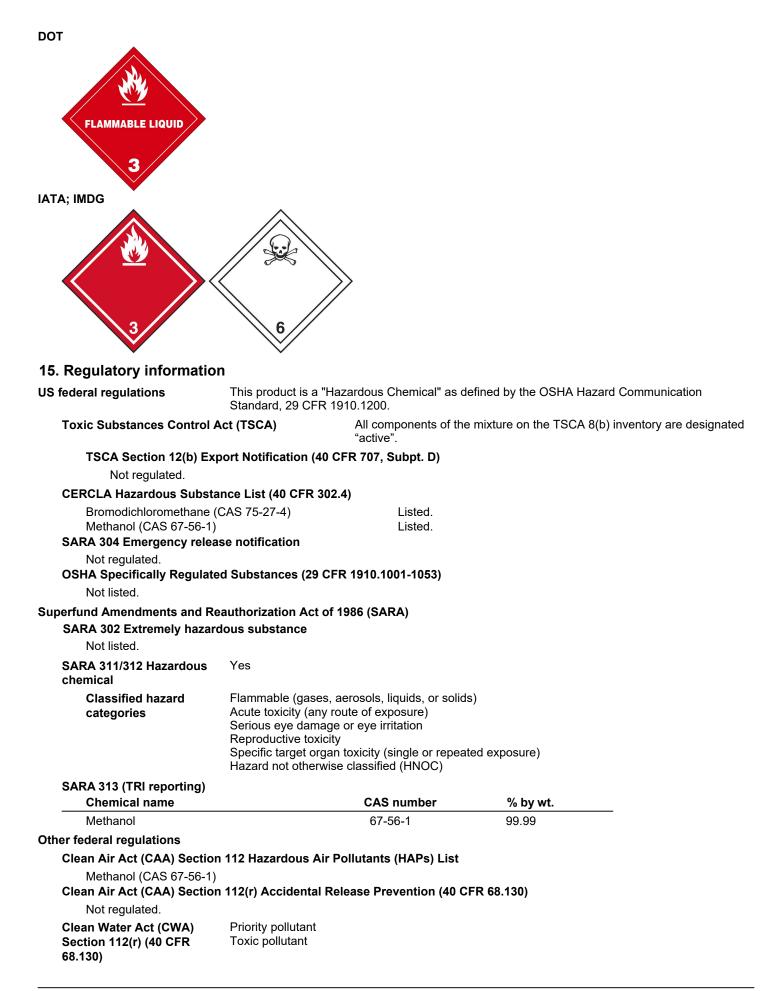
Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

•	
Disposal instructions	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT	
UN number	UN1230
UN proper shipping name	Methanol, solution (Methanol RQ = 5001 LBS)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
Special precautions for user	· Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T7, TP2
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1230
UN proper shipping name	Methanol solution (Methanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	II
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1230
UN proper shipping name	METHANOL SOLUTION (Methanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
	• Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	



Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act. **(SDWA)**

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Bromodichloromethane (CAS 75-27-4) Methanol (CAS 67-56-1)

California Proposition 65



WARNING: This product can expose you to Bromodichloromethane, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Bromodichloromethane (CAS 75-27-4) Listed: January 1, 1990

California Proposition 65 - CRT: Listed date/Developmental toxin

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	09-13-2014
Revision date	03-11-2022
Version #	04
NFPA ratings	Health: 4 Flammability: 3 Instability: 0

Disclaimer

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Revision information