# GHEMSERVICE.

# SAFETY DATA SHEET

#### 1. Identification

1. Identification			
Product identifier	1,1-Dichloroethane		
Other means of identification			
Item	N-10123		
Synonyms	ETHYLIDENE CHLORIDE		
Recommended use	For Laboratory Use Only		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Chem Service, Inc.		
Address	660 Tower Lane		
	West Chester, PA 19380		
Talanhana	United States Toll Free	800-452-9994	1
Telephone	Direct	610-692-302	
Website	www.chemservice.com	010 002 002	5
E-mail	info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	)
	Chemtrec outside US	+1 703-527-3	887
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 2
Health hazards	Acute toxicity, oral		Category 4
	Serious eye damage/eye irritat	ion	Category 2A
	Specific target organ toxicity, s	ingle exposure	Category 3 respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environment, Category 3 long-term hazard		Category 3
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Highly flammable liquid and vapor. Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.		
Precautionary statement			
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Use only outdoors or in a well-ventilated area. 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. Avoid breathing mist or vapor. Wash		

tools. I ake precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off

ResponseIf swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off<br/>immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person<br/>to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several<br/>minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison<br/>center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical<br/>advice/attention. In case of fire: Use appropriate media to extinguish.

StorageStore in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.<br/>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	Not applicable.

#### 3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
1,1-Dichloroethane	ETHYLIDENE CHLORIDE	75-34-3	100

#### 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
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	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
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. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. 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 measures

Personal precautions, protective equipment and emergency procedures Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. 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). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustible (wood, paper, oil, etc.) away from spilled material.	
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.	
	Small Spills: 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 release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. 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	Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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 must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.	
	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 Fire Protection Association (NFPA) 70, "National Electrical Code".	
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. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.	
8. Exposure controls/personal protection		

#### Occupational exposure limits

Material	Туре	Value	
1,1-Dichloroethane (CAS 75-34-3)	PEL	400 mg/m3	
,		100 ppm	
US. ACGIH Threshold Limit Va	lues		
Material	Туре	Value	
1,1-Dichloroethane (CAS 75-34-3)	TWA	100 ppm	
US. NIOSH: Pocket Guide to C	hemical Hazards		
Material	Туре	Value	
1,1-Dichloroethane (CAS 75-34-3)	TWA	400 mg/m3	
		100 ppm	
ogical limit values	lo biological exposure limits noted for the ingr	edient(s).	

Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.	
Individual protection measures	, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection Hand protection	Wear protective gloves.	
Other	Wear appropriate chemical resistant clothing.	
<b>Respiratory protection</b>	Wear positive pressure self-contained breathing apparatus (SCBA).	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

# 9. Physical and chemical properties

-	-
Appearance	
Physical state	Liquid.
Form	Liquid
Color	Colorless
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-142.42 °F (-96.9 °C)
Initial boiling point and boiling range	135.32 °F (57.4 °C)
Flash point	10.4 °F (-12.0 °C) Closed Cup 57.2 °F (14.0 °C) Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	5.6
Flammability limit - upper (%)	11.4
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	30.26 kPa at 25 °C
Vapor density	3.92
Relative density	Not available.
Solubility(ies)	
Solubility (water)	6 g/l
Partition coefficient (n-octanol/water)	1.79
Auto-ignition temperature	856 °F (457.78 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.1679 g/cm3 estimated
Dynamic viscosity	0.38 mPa.s
Dynamic viscosity	68 °F (20 °C)
temperature	

Flammability class	Flammable IB estimated
Kinematic viscosity	0.32537 mm <sup>2</sup> /s estimated
Molecular formula	C2-H4-Cl2
Molecular weight	98.97 g/mol
Specific gravity	1.17 at 25 °C

### 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 products	No hazardous decomposition products are known.	

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Causes serious eye irritation.		
Ingestion	Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.		

#### Information on toxicological effects

Acute toxicity

Harmful if swallowed. May cause respiratory irritation. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Product	Species	Test Results
1,1-Dichloroethane (CAS 75-34-3	i)	
Acute		
Dermal		
LD50	Rabbit	3890 mg/kg
Inhalation		
LC50	Mouse	17300 ppm, 2 Hours
	Rat	16000 ppm, 8 Hours
		13000 ppm, 4 Hours
Oral		
LD50	Rat	725 mg/kg
* Estimates for product may b	be based on additional componen	t data not shown.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatio	'n	
<b>Respiratory sensitization</b>	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
US. OSHA Specifically Reg Not listed.	ulated Substances (29 CFR 191	0.1001-1050)

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Respiratory tract irritation.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful.

# 12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product		Species	Test Results
1,1-Dichloroethane (CAS 75-	34-3)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	480 mg/l, 96 hours
* Estimates for product may b	e based on add	tional component data not shown.	
Persistence and degradability	No data is ava	ailable on the degradability of this product.	
Bioaccumulative potential	Not available.		
Partition coefficient n-octar 1.79	nol / water (log l	Kow)	
Mobility in soil	No data availa	able.	
Other adverse effects		erse environmental effects (e.g. ozone dep ocrine disruption, global warming potential	

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
US RCRA Hazardous Waste	U List: Reference	
1,1-Dichloroethane (CAS	75-34-3) U076	
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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is	

### 14. Transport information

DOT

	-	
	UN number	UN2362
	UN proper shipping name	1,1-Dichloroethane
	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, T4, TP1
	Packaging exceptions	150
	Packaging non bulk	202
	Packaging bulk	242
IAT	Α	
	UN number	UN2362

emptied.

UN proper shipping name Transport hazard class(es)	1,1-Dichloroethane
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	3L
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	UN2362
UN proper shipping name	1,1-DICHLOROETHANE
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	Ш
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not available.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	



#### 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

Listed.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## CERCLA Hazardous Substance List (40 CFR 302.4)

1,1-Dichloroethane (CAS 75-34-3)

#### SARA 304 Emergency release notification

Not regulated.

	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely haza Not listed.	rdous substance	
SARA 311/312 Hazardous chemical	Yes	
SARA 313 (TRI reporting) Chemical name	CAS numb	er % by wt.
1,1-Dichloroethane	75-34-3	100
ther federal regulations		
•	on 112 Hazardous Air Pollutants (HAPs) Lis	st
1,1-Dichloroethane (CA Clean Air Act (CAA) Section		
Not regulated. Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Priority pollutant Toxic pollutant	
Safe Drinking Water Act (SDWA)	Contaminate candidate list	
S state regulations		
US - New Jersey RTK - Su	ostances: Listed substance	
1,1-Dichloroethane (CA	,	
	Substances. CA Department of Justice (Cal	lifornia Health and Safety Code Section 11100)
Not listed.		lifornia Health and Safety Code Section 11100) Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
Not listed. US. California. Candidate (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA	Chemicals List. Safer Consumer Products S 75-34-3) Substance List S 75-34-3)	
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA	Chemicals List. Safer Consumer Products S 75-34-3) Substance List S 75-34-3) Id Community Right-to-Know Act S 75-34-3)	
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H	Chemicals List. Safer Consumer Products S 75-34-3) Substance List S 75-34-3) Id Community Right-to-Know Act S 75-34-3) azardous Substances	
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA	Chemicals List. Safer Consumer Products S 75-34-3) Substance List S 75-34-3) Id Community Right-to-Know Act S 75-34-3) azardous Substances	
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK	Chemicals List. Safer Consumer Products S 75-34-3) Substance List S 75-34-3) Id Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3)	
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA	Chemicals List. Safer Consumer Products S 75-34-3) Substance List S 75-34-3) d Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3)	
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition	Chemicals List. Safer Consumer Products S 75-34-3) Substance List S 75-34-3) d Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3)	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition WARNING: This produce	Chemicals List. Safer Consumer Products I S 75-34-3) Substance List S 75-34-3) Id Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3)	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition WARNING: This produce	Chemicals List. Safer Consumer Products I S 75-34-3) Substance List S 75-34-3) d Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3)	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition WARNING: This product	Chemicals List. Safer Consumer Products I S 75-34-3) Substance List S 75-34-3) d Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3)	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition WARNING: This produc US - California Proposition	Chemicals List. Safer Consumer Products I S 75-34-3) Substance List S 75-34-3) d Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3)	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. California to cause cancer. ubstance nuary 1, 1990 On inventory (yes/no)
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition WARNING: This product US - California Propos 1,1-Dichloroethane ternational Inventories Country(s) or region	Chemicals List. Safer Consumer Products I S 75-34-3) Substance List S 75-34-3) d Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) 65 tt contains a chemical known to the State of C ition 65 - CRT: Listed date/Carcinogenic su (CAS 75-34-3) Listed: Jar Inventory name	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. ralifornia to cause cancer. ubstance nuary 1, 1990 Ces (AICS) On inventory (yes/no)
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition WARNING: This product US - California Proposition WARNING: This product US - California Proposition WARNING: This product US - California Proposition MARNING: This product MARNING: This	Chemicals List. Safer Consumer Products I S 75-34-3) Substance List S 75-34-3) d Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) G5 tt contains a chemical known to the State of C ition 65 - CRT: Listed date/Carcinogenic su (CAS 75-34-3) Listed: Jar Inventory name Australian Inventory of Chemical Substance	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. Ralifornia to cause cancer. ubstance huary 1, 1990 Ces (AICS) On inventory (yes/no)
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition WARNING: This produc US - California Propos 1,1-Dichloroethane ternational Inventories Country(s) or region Australia Canada	Chemicals List. Safer Consumer Products I S 75-34-3) Substance List S 75-34-3) dd Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3) 65 tt contains a chemical known to the State of C ition 65 - CRT: Listed date/Carcinogenic su (CAS 75-34-3) Listed: Jar Inventory name Australian Inventory of Chemical Substance Domestic Substances List (DSL)	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. Ralifornia to cause cancer. ubstance nuary 1, 1990 ces (AICS) On inventory (yes/no) Yei No Yei
Not listed. US. California. Candidate ( (a)) 1,1-Dichloroethane (CA US. Massachusetts RTK - 1,1-Dichloroethane (CA US. New Jersey Worker ar 1,1-Dichloroethane (CA US. Pennsylvania RTK - H 1,1-Dichloroethane (CA US. Pennsylvania Worker 1,1-Dichloroethane (CA US. Rhode Island RTK 1,1-Dichloroethane (CA US. California Proposition WARNING: This produc US - California Propos 1,1-Dichloroethane ternational Inventories Country(s) or region Australia Canada Canada	Chemicals List. Safer Consumer Products I S 75-34-3) Substance List S 75-34-3) d Community Right-to-Know Act S 75-34-3) azardous Substances S 75-34-3) and Community Right-to-Know Law S 75-34-3) S 75-34-3) S 75-34-3) S 75-34-3) 65 tt contains a chemical known to the State of C ition 65 - CRT: Listed date/Carcinogenic su (CAS 75-34-3) Listed: Jar Inventory name Australian Inventory of Chemical Substance Domestic Substances List (DSL) Non-Domestic Substances List (NDSL)	Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. ralifornia to cause cancer. ubstance nuary 1, 1990 ces (AICS) ces (AICS) for inventory (yes/no) ces in China (IECSC)

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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	06-03-2014
Revision date	11-25-2015
Version #	02
Disclaimer	The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
	Copyright © 2000-2014 Chem Service, Inc. All rights reserved except that this SDS may be printed for the use of a customer or prospective customer of Chem Service, Inc provided the entire SDS is printed. The SDS may not be placed in any database or otherwise stored or distributed in electronic or any other form.

This product is furnished FOR LABORATORY USE ONLY.