SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	Chlorine - Eastern Valve		
Other means of identification	None.		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/ Manufacturer	Distributor information		
Company name Address	Thatcher Company, Inc. 1905 Fortune Road Salt Lake City, UT 84104 United States		
Telephone E-mail	General Assistance 8-5 Not available.	(801) 972-458	7
Emergency phone number	Chemtrec (CCN 22106)	(800) 424-930	0
2. Hazard(s) identification			
Physical hazards	Oxidizing gases		Category 1
Health hazards	Acute toxicity, dermal		Category 1
	Acute toxicity, inhalation		Category 2
	Skin corrosion/irritation		Category 1
	Serious eye damage/eye irritati	on	Category 1
	Specific target organ toxicity, si	ngle exposure	Category 3 respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environ hazard	onment, acute	Category 1
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement			ntact with skin. Causes severe skin burns and eye inhaled. May cause respiratory irritation. Very toxic
Precautionary statement			
Prevention	Keep/Store away from clothing and other combustible materials. Keep reduction valves/valves and fittings free from oil and grease. Do not breathe gas. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.		
Response	contaminated clothing. Rinse sl	kin with water/sh	niting. If on skin (or hair): Take off immediately all nower. If inhaled: Remove person to fresh air and e cautiously with water for several minutes

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. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Stop leak if safe to do so. Collect spillage. Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal None known.

Hazard(s) not otherwise classified (HNOC)

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Chlorine		7782-50-5	100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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 physician or poison control center immediately.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	No specific first aid measures noted.
Ingestion	Not likely, due to the form of the product.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Dizziness. Headache. Nausea, vomiting. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical 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 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. Discard any shoes or clothing items that cannot be decontaminated.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Greatly increases the burning rate of combustible materials. Containers may explode when heated.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting	Allow gas to burn if flow cannot be shut off immediately. Apply water from safe distance to cool

Fire fighting equipment/instructions Allow gas to burn if flow cannot be shut off immediately. Apply water from safe distance to cool container and protect surrounding area. In case of fire: Stop leak if safe to do so. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Do not direct water at source of leak or safety devices as icing may occur. Use water spray to cool unopened containers. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsMay cause or intensify fire; oxidizer.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. 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 gas. Ventilate closed spaces before entering them. 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	If this gas leaks without igniting, extreme caution must be used; flammable or explosive mixtures with air may be formed. Isolate area until gas has dispersed. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop leak if you can do so without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Runoff from fire control or dilution water may cause pollution.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Keep away from combustible material. Keep reduction valves free from grease and oil. Do not breathe gas. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре	Value
Chlorine (CAS 7782-50-5)	Ceiling	3 mg/m3
		1 ppm
US. ACGIH Threshold Limit	Values	
Material	Туре	Value
Chlorine (CAS 7782-50-5)	STEL	1 ppm
	TWA	0.5 ppm
US. NIOSH: Pocket Guide to	o Chemical Hazards	
Material	Туре	Value
Chlorine (CAS 7782-50-5)	Ceiling	1.45 mg/m3
		0.5 ppm
Biological limit values	No biological exposure limits noted for	or the ingredient(s).
Appropriate engineering controls	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. Eye wash facilities and emergency shower must be available when handling this product.	
Individual protection measures,	such as personal protective equipm	ent
Eye/face protection	Chemical respirator with organic vap	or cartridge and full facepiece.
Skin protection		
Hand protection	Wear appropriate chemical resistant supplier.	gloves. Suitable gloves can be recommended by the glove
Other	Wear appropriate chemical resistant recommended.	clothing. Use of an impervious apron or protective suit is
Respiratory protection	Chemical respirator with organic vap	or cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	

Material name: Chlorine - Eastern Valve

1336306, 1336312, 1336313, 1336310, 1336308, 1336305, 1336307, 1336000, 1336312, 1336311, 1336309, 1336310, 1336302 Versi

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

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Molecular formula Molecular weightCl2Molecular weight Oxidizing properties70.91 g/molOxidizing propertiesMay cause or intensify fire; oxidizer.10. Stability and reactivity ReactivityGreatly increases the burning rate of combustible materials. This product may react with reducing agents. Reacts with water to form corrosive hydrochloric acid. Reactive and oxidizing agent. May react explosively with organic materials. Reactive with most elemental metals at high temperatures or in the presence of moisture. Highly reactive with Tin and Titanium.Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.Conditions to avoidKeep away from combustible material. Contact with incompatible materials. Organic materials (petrochemicals, oils, greases). Carbides. Nitrides. Oxidizable materials. Organic materials.Hazardous decomposition productsHalogenated materials.	Other information	
Molecular weight Oxidizing properties70.91 g/mol May cause or intensify fire; oxidizer.10. Stability and reactivityGreatly increases the burning rate of combustible materials. This product may react with reducing agents. Reacts with water to form corrosive hydrochloric acid. Reactive and oxidizing agent. May react explosively with organic materials. Reactive with most elemental metals at high temperatures or in the presence of moisture. Highly reactive with Tin and Titanium.Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.Conditions to avoidKeep away from combustible material. Contact with incompatible materials. Organic materials (petrochemicals, oils, greases). Carbides. Nitrides. Oxidizable materials. Organic materials. Organic materials. 	Explosive properties	Not explosive.
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reactionsKeep away from combustible material. Contact with incompatible materials.Conditions to avoidKeep away from combustible material. Contact with incompatible materials.Incompatible materialsCombustible material. Reducing agents. Metals. Ammonia. Metal hydrides. Oxidizable materials. Organic materials (petrochemicals, oils, greases). Carbides. Nitrides. Oxides. Phosphides.Hazardous decomposition productsHalogenated materials.	Chemical stability	Material is stable under normal conditions.
Incompatible materialsCombustible material. Reducing agents. Metals. Ammonia. Metal hydrides. Oxidizable materials. Organic materials (petrochemicals, oils, greases). Carbides. Nitrides. Oxides. Phosphides. Sulfides.Hazardous decomposition productsHalogenated materials.	-	Hazardous polymerization does not occur.
Organic materials (petrochemicals, oils, greases). Carbides. Nitrides. Oxides. Phosphides. Sulfides. Hazardous decomposition products	Conditions to avoid	Keep away from combustible material. Contact with incompatible materials.
products	Incompatible materials	Organic materials (petrochemicals, oils, greases). Carbides. Nitrides. Oxides. Phosphides.
	products	

Material name: Chlorine - Eastern Valve

1336306, 1336312, 1336313, 1336310, 1336308, 1336305, 1336307, 1336000, 1336312, 1336311, 1336309, 1336310, 1336302 Versi

11. Toxicological information

Information on likely routes of exposure

Inhalation	Fatal if inhaled.
Skin contact	Fatal in contact with skin. Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Headache. Dizziness. Nausea, vomiting. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing.

Information on toxicological effects

Acute toxicity	Fatal if inhaled. Fatal in contact with skin. May cause respiratory irritation.	
Product	Species	Test Results
Chlorine - Eastern Valve (CAS 77	82-50-5)	
Acute		
Inhalation		
LC50	Mouse	137 ppm, 1 Hours
* Estimates for product may b	e based on additional componen	t data not shown.
Skin corrosion/irritation	Causes severe skin burns and	eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitization	า	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate pr mutagenic or genotoxic.	oduct or any components present at greater than 0.1% are
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
US. OSHA Specifically Reg	ulated Substances (29 CFR 191	0.1001-1050)
Not listed.		
Reproductive toxicity	This product is not expected to	cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not likely, due to the form of th	e product.
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

Ecotoxicity Very toxic		to aquatic life.		
Product		Species	Test Results	
Chlorine (CAS 7782-50-5)				
Aquatic				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.029 mg/l, 96 hours	
* Estimates for product may	be based on	additional component data not shown.		
Persistence and degradability	No data i	s available on the degradability of this produ	ict.	
Biogeournulative notential	No data a	Ne data available		

Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Material name: Chlorine - Eastern Valve

1336306, 1336312, 1336313, 1336310, 1336308, 1336305, 1336307, 1336000, 1336312, 1336311, 1336309, 1336310, 1336302 Versi

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.
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	
DOT	
UN number	
UN proper shipping name	Chlorine, MARINE POLLUTANT
Transport hazard class(es)	
Class	2.3
Subsidiary risk	5.1, 8
Label(s)	2.3, 5.1, 8
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	Yes
	• Read safety instructions, SDS and emergency procedures before handling.
Special provisions	2, B9, B14, N86, T50, TP19
Packaging exceptions	None
Packaging non bulk	304
Packaging bulk DOT BULK	314, 315
BULK	
UN number	
UN proper shipping name	Chlorine, MARINE POLLUTANT
Transport hazard class(es)	
Class	2.3
Subsidiary risk	5.1, 8
Label(s)	2.3, 5.1, 8
Environmental hazards	
Marine pollutant	Yes
	• Read safety instructions, SDS and emergency procedures before handling.
Special provisions	2, B9, B14, N86, T50, TP19
Packaging exceptions	None
Packaging non bulk	304
Packaging bulk	314, 315
UN number	UN1017
UN proper shipping name	Chlorine
Transport hazard class(es)	
Class	2.3
Subsidiary risk	5.1, 8
Packing group	Not applicable.
Environmental hazards	No. 2CP
ERG Code	
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
	Faskiddan
Passenger and cargo	Forbidden
aircraft Cargo aircraft only	Forbidden

Material name: Chlorine - Eastern Valve

IMDG UN1017 **UN number** UN proper shipping name CHLORINE Transport hazard class(es) Class 2.3 Subsidiary risk 5.1, 8 Packing group Not applicable. **Environmental hazards** Marine pollutant Yes F-C, S-U EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code DOT; DOT Bulk packaging type INHALATION CORRO HAZARD IATA; IMDG Marine pollutant **General information** IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant. 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. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. D 202 4

CERCLA Hazardous Substance List (40 CFR 302.4)	
Chlorine (CAS 7782-50-5)	Listed.
SARA 304 Emergency release notification	
Chlorine (CAS 7782-50-5)	10 LBS

Material name: Chlorine - Eastern Valve

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US. OSHA Specifically Not listed.	Regulated Subst	ances (29 CFR	1910.1001-1050)		
uperfund Amendments ar Hazard categories	Immediate Delayed Ha Fire Hazard Pressure H	Hazard - Yes azard - No d - Yes	SARA)		
SARA 302 Extremely h	azardous substa	nce			
Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Chlorine	7782-50-5	10	100 lbs		
SARA 311/312 Hazardo chemical	ous Yes				
SARA 313 (TRI reportir Chemical name	ng)		CAS number	% by wt.	
Chlorine			7782-50-5	100	
ther federal regulations					
Chlorine (CAS 7782 Clean Air Act (CAA) Se Chlorine (CAS 7782 Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	ection 112(r) Accie 2-50-5)) Hazardous		Prevention (40 CFR 6	8.130)	
Safe Drinking Water Ad (SDWA)	ct 4 mg/l 4.0 mg/l				
S state regulations					
US - New Jersey RTK -	Substances: List	ed substance			
Chlorine (CAS 7782 US. California Controll	'	A Department of	of Justice (California	Health and Safety Cod	le Section 11100)
Not listed. US. California. Candida (a))	ate Chemicals Lis	t. Safer Consur	ner Products Regulat	ions (Cal. Code Regs,	tit. 22, 69502.3, subd.
Chlorine (CAS 7782 US. Massachusetts RT Chlorine (CAS 7782 US. New Jersey Worke	K - Substance Lis 2-50-5)		Act		
Chlorine (CAS 7782 US. Pennsylvania RTK	- Hazardous Sub	stances			
Chlorine (CAS 7782		ity Pight_to_Kng			
US. Pennsylvania Worl Chlorine (CAS 7782 US. Rhode Island RTK					
Chlorine (CAS 7782 US. Rhode Island RTK	2-50-5)		JW Law		
Chlorine (CAS 7782 US. Rhode Island RTK Chlorine (CAS 7782 US. California Proposit	2-50-5) 2-50-5) t ion 65				
Chlorine (CAS 7782 US. Rhode Island RTK Chlorine (CAS 7782 US. California Proposit California Safe Drini any chemicals curre	2-50-5) 2-50-5) t ion 65 king Water and To	xic Enforcement	Act of 1986 (Propositio	on 65): This material is r	not known to contain
Chlorine (CAS 7782 US. Rhode Island RTK Chlorine (CAS 7782 US. California Proposit California Safe Drin	2-50-5) 2-50-5) t ion 65 king Water and To	xic Enforcement	Act of 1986 (Propositio	on 65): This material is r	not known to contain
Chlorine (CAS 7782 US. Rhode Island RTK Chlorine (CAS 7782 US. California Proposit California Safe Drini any chemicals curre remational Inventories Country(s) or region	e-50-5) ti on 65 king Water and To ently listed as carci Inventory (xic Enforcement nogens or reproc name	Act of 1986 (Propositio		On inventory (yes/no)*
Chlorine (CAS 7782 US. Rhode Island RTK Chlorine (CAS 7782 US. California Proposit California Safe Drin any chemicals curre	2-50-5) t ion 65 king Water and To ently listed as carci Inventory f Australian	xic Enforcement nogens or reproc name Inventory of Che	Act of 1986 (Propositio ductive toxins. mical Substances (AIC		
Chlorine (CAS 7782 US. Rhode Island RTK Chlorine (CAS 7782 US. California Proposit California Safe Drini any chemicals curre ternational Inventories Country(s) or region	2-50-5) t ion 65 king Water and To ently listed as carci Inventory f Australian	xic Enforcement nogens or reproc name	Act of 1986 (Propositio ductive toxins. mical Substances (AIC		On inventory (yes/no)*
Chlorine (CAS 7782 US. Rhode Island RTK Chlorine (CAS 7782 US. California Proposit California Safe Drin any chemicals curre cernational Inventories Country(s) or region Australia	2-50-5) t ion 65 king Water and To ently listed as carci Inventory Australian Domestic S	xic Enforcement nogens or reproc name Inventory of Che	Act of 1986 (Propositio ductive toxins. mical Substances (AIC DSL)		On inventory (yes/no) * Yes

Country(s) or region	Inventory name	On inventory (yes/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)	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	05-18-2015
Revision date	04-07-2023
Version #	02
NFPA ratings	Health: 4 Flammability: 0 Instability: 0 Special hazards: OX
NFPA ratings	
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision Information	Product and Company Identification: Product Codes