spectrum®



SAFETY DATA SHEET

Preparation Date: 03/14/2019

Revision date 03/14/19

Revision Number: G1

	Revision date 05/14/19	Revision Number. Gr
	1. IDENTIFICATION	
Product identifier		
Product code: Product Name:	E2001 EPICHLOROHYDRIN	
Other means of identification		
Synonyms:	(Chloromethyl)ethylene oxide	
	(DL)-alpha-Epichlorohydrin 1-Chloor-2,3-epoxy-propaan (Dutch)	
	1-Chlor-2,3-epoxy-propan (German)	
	1-Chloro-2,3-epoxypropane	
	2,3-Epoxypropyl chloride	
	2-(Chloromethyl)oxirane	
	3-Chloro-1,2-epoxypropane	
	3-Chloro-1,2-propane oxide	
	3-Chloro-1,2-propylene oxide	
	Chloromethyloxirane Chloropropylene oxide	
	ECH	
	Epichloorhydrine (Dutch)	
	Epichlorhydrine (French)	
	Epichlorohydryna (Polish)	
	Epicloridrina (Italian)	
	Glycerol epichlorhydrin	
	alpha-Epichlorohydrin	
	epi-Chlorohydrin gamma-Chloropropylene oxide	
CAS #:	106-89-8	
RTECS #	TX4900000	
CI#:	Not available	
Recommended use of the che	mical and restrictions on use No information available.	
Uses advised against	No information available	
Supplier:	Spectrum Chemical Mfg. Corp	
	14422 South San Pedro St.	
	Gardena, CA 90248 (310) 516-8000	
	(310) 310-0000	
Order Online At:	https://www.spectrumchemical.com	
Emergency telephone number	Chemtrec 1-800-424-9300	
Contact Person:	Tom Tyner (USA - West Coast)	
Contact Person:	Ibad Tirmiz (USA - East Coast)	

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

Label elements

Danger

Hazard statements

Toxic if swallowed, in contact with skin or if inhaled Causes severe skin burns and eye damage May cause an allergic skin reaction Suspected of causing genetic defects May cause cancer Suspected of damaging fertility or the unborn child Causes damage to organs through prolonged or repeated exposure Flammable liquid and vapor



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards

Harmful to aquatic life with long lasting effects

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/protective clothing/eye protection/face protection

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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 Keep cool

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician In case of fire: Use CO2, dry chemical, or foam to extinguish. 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 or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do NOT induce vomiting **Precautionary Statements - Storage**

Store locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS No Wei		Weight-%	
Epichlorohydrin	106-89-8	100	
	4. FIRST AID MEASURES		
	4. TIRST AID MEASURES		
First aid measures			
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.		
Skin Contact:	exic in contact with skin. Wash off immediately with soap and plenty of water. Remove all intaminated clothes and shoes. Continue flushing with plenty of water for at least 15 inutes. Immediate medical attention is required. Call a physician or Poison Control Centre mediately.		
Eye Contact:	sh eyes with water for 15 minutes. Immediate medical attention is required. Call a /sician immediately.		
	Toxic by inhalation. Move to fresh air. If not breathing, give artificial respiration. If breathing s difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or 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. Immediate medical attention is required.		
Ingestion:	Toxic if swallowed. Do not induce vomiting witho	out medical advice. Never give anything by	
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Most important symptoms and effects, both acute and delayed

C M M D L M	oxic by inhalation, in contact with skin and if swallowed causes severe skin burns and eye damage lay cause an allergic skin reaction lay cause shortness of breath lay cause tingling of hands and feet vizziness ightheadedness lay cause muscle pain kin rash
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Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5.	FIR	E-F	GHT	ING	MEA	SURE	ES
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Extinguishing Media Suitable Extinguishing Media:	Use water spray, mist, alcohol-resistant foam, Dry chemical or Carbon dioxide (CO2).
Unsuitable Extinguishing Media:	Do not use a solid (straight) water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2). Hydrogen chloride. phosgene.
Specific hazards	Flammable. May be ignited by heat, sparks or flames. Vapor may travel considerable distance to source of ignition and flash back .Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases.
Special Protective Actions for Firefighters	
Specific Methods:	Water mist may be used to cool closed containers For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for contain	inment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up	Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep refrigerated. Store at 2-8 deg. C. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents Strong acids Alkalis Bases Ammonia Amines Magnesium Aluminum Halides Zinc

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Epichlorohydrin	106-89-8	5 ppm TWA 19 mg/m³ TWA	None	0.5 ppm TWA	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Epichlorohydrin	106-89-8	0.5 ppm TWA 1.9 mg/m³ TWA	0.1 ppm TWA	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Epichlorohydrin	106-89-8	2 ppm TWA	0.5 ppm TWA
		7.6 mg/m ³ TWA	

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles and Face-shield.
Skin and body protection:	Chemical resistant protective suit Gloves Boots
Respiratory protection:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance:	Color:
Liquid	Clear.	Colorless.
Odor:	Taste	Formula
Irritating. Chloroform-like.	No information available.	C3H5ClO
Molecular/Formula weight (g/mole)	: Flammability (solid, gas)	Flashpoint (°C/°F):
92.53	no data available	28-31°C/ 82.4-87.8°F
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Closed cup	385°C/ 725°F	3.8

Upper Explosion Limit (%): 21

Boiling point/range(°C/°F): 115-117°C/ 239-242.6°F

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Melting point/range(°C/°F): -48-(-57)°C/ -54.4-(-70.6)°F

Bulk density: No information available

pH No information available

Vapor density: 3.29

Partition coefficient (n-octanol/water): 0.45

Solubility: Soluble in Methanol Soluble in diethyl ether Partially soluble in n-octanol Very slightly soluble in water **Decomposition temperature(°C/°F):** No information available

Density (g/cm3): 1.18

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Heat, flames and sparks. Ignition sources. Incompatible materials.

Carbon monoxide. Carbon dioxide. Hydrogen chloride gas. Phosgene.

<u>Reactivity</u> No information available

Chemical stability

Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization may occur

Conditions to avoid:

Incompatible Materials:

Strong acids Alkalis Bases Ammonia Amines Magnesium Aluminum Halides Zinc

Strong oxidizing agents

Hazardous decomposition products:

Other Information Corrosivity:

No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document Component Information

Epichlorohydrin								
CAS No	106-89-8							
LD50/oral/rat = = 90 mg/kg Oral LD50 Rat								
LD50/oral/mouse = 195 mg/kg Oral LD50 Mouse = 236 mg/kg Oral LD50 Mouse LD50/dermal/rabbit = 515 mg/kg Dermal LD50Rabbit								
LD50/dermal/rabbit = 515 mg/kg Dermal LD50 Rabbit LD50/dermal/rat = 1 gm/kg Dermal LD50 Rat								
LC50/inhalation/rat = 500 pp	m Inhalation LC50 Rat 4 h							
LC50/inhalation/mouse = 3.2								
Other LD50 or LC50informat	ion = No information available							
Product Information	Product Information							
LD50/oral/rat =								
Value - Acute Tox = 90 mg/kg								
LD50/oral/mouse =								
Value - Acute Tox Oral = 195 m	ng/kg							
LD50/dermal/rabbit								
Value - Acute Tox = 515 mg/kg								
LD50/dermal/rat VALUE - Acute Tox Dermal = 10)00 ma/ka							
LC50/inhalation/rat								
VALUE-Vapor = 500 ppm 4 h VALUE-Gas = No information ava	ailabla							
VALUE-Dust/Mist = No information av								
LC50/Inhalation/mouse								
VALUE-Vapor = 3.25 gm/m ³ VALUE - Gas = No information a	vailable							
VALUE - Dust/Mist = No informa								
<u>Symptoms</u>								
Skin Contact:	Toxic in contact with skin. Causes skin burns. May cause allergic skin reaction.							
Eye Contact:	Causes serious eye damage.							
Inhalation	Toxic by inhalation. May cause irritation of respiratory tract.							
Ingestion	Toxic if swallowed. May cause digestive (gastointestinal) tract irritation.							
Aspiration hazard	No information available.							
Delayed and immediate effects	as well as chronic effects from short and long-term exposure							
Chronic Toxicity	No information available.							

Product name: EPICHLOROHYDRIN

Sensitization:

May cause sensitization by skin contact.

Mutagenic Effects:

Suspected of causing genetic defects

Carcinogenic effects:

May cause cancer.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Epichlorohydrin	106-89-8	[1999] Supplement 7 [1987]	Animal Carcinogen	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	Suspected of damaging fertility or the unborn child
Reproductive Effects:	May impair fertility
	Causes adverse reproductive effects
Developmental Effects:	No information available
Teratogenic Effects:	No information available
-	

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Target Organs:	Mucous membrane. Liver, kidney, and respiratory system. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	Aquatic environment.	
Epichlorohydrin - 106-89-8 Fish	LC50: =35mg/L (96h, Lepomis macrochirus) LC50: =30.5mg/L (96h, Brachyc rerio) LC50: 9.1 - 12.3mg/L (96h, Pimephales promelas)	danio
Crustacea	EC50: =24mg/L (48h, Daphnia magna)	
Persistence and degradability:	No information available	
Bioaccumulative potential:	No information available.	
Mobility in soil Other adverse effects	No information available No information available.	
Product code: E2001	Product name: EPICHLOROHYDRIN	Page

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Epichlorohydrin	106-89-8	None	None	None	U041

14. TRANSPORT INFORMATION

-	07	
U	OT UN-No: Proper Shipping Name: Hazard Class Subsidiary Class Packing group: Emergency Response Guide Number	UN2023 Epichlorohydrin 6.1 3 II 131P
	Marine Pollutant DOT RQ (Ibs): Special Provisions Symbol(s): Description:	Severe Marine Pollutant No information available IB2, T7, TP2, TP13 No information available UN2023, Epichlorohydrin, 6.1 (3), II
т	DG (Canada) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Marine Pollutant Description:	UN2023 Epichlorohydrin 6.1 No information available II No Information available UN2023, Epichlorohydrin, 6.1 (3), II
	DR UN Number Proper Shipping Name: Transport hazard class(es) Packing group Subsidiary Risk: pecial Provisions Description:	UN2023 Epichlorohydrin 6.1 II No information available ²⁷⁹ UN2023, Epichlorohydrin, 6.1 (3), II
I	MDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant EMS:	UN2023 Epichlorohydrin 6.1 No information available II No information available F-E
-		

Product code: E2001

Product name: EPICHLOROHYDRIN

Special Provisions Description	279 UN2023, Epichlorohydrin, 6.1 (3), II
RID UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Special Provisions Description:	UN2023 Epichlorohydrin 6.1 No information available II 279 UN2023, Epichlorohydrin, 6.1 (3), II
ICAO (air) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Description: Special Provisions	UN2023 Epichlorohydrin 6.1 No information available II UN2023, Epichlorohydrin, 6.1 (3), II A113
IATA UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements - Response Special Provisions Description:	UN2023 Epichlorohydrin 6.1 No information available II 6F No information available UN2023, Epichlorohydrin, 6.1 (3), II

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Epichlorohydrin	106-89-8	PresentACTIV E	Present KE-05647	Present	Present (2)-275	Present	Present	Present 203-439-8

U.S. Regulations

Epichlorohydrin Massachusetts RTK: Present New Jersey RTK Hazardous Substance List: 0828 New Jersey (EHS) List: 0828 500 lb TPQ New Jersey - Discharge Prevention - List of Hazardous Substances: Present New Jersey TCPA - EHS: 20000lbTQ Pennsylvania RTK: Environmental hazard Special hazardous substance Pennsylvania RTK - Environmental Hazard List Present Pennsylvania RTK - Special Hazardous Substances Present Minnesota - Hazardous Substance List: Present New York Release Reporting - List of Hazardous Substances: 100 lb RQ 1 lb RQ Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present **FDA - Direct Food Additives** 21 CFR 172.892 (<=0.3%); 21 CFR 172.892 (<=0.1%); 21 CFR 172.892 (<=0.1% followed by Propylene oxide <=25%); 21 CFR 172.892 (<=0.3% and Acetic anhydride)

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

AWARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

AWARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Component	CAS No	Carcinogen	Reproductive	Female Reproductive Toxicity:
Epichlorohydrin	106-89-8	carcinogen	male reproductive toxicity	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Epichlorohydrin	106-89-8		100 lb EPCRA RQ	None		0.1 % de minimis concentration

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Epichlorohydrin	106-89-8	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Epichlorohydrin 106-89-8 (100) WHMIS 2015 Hazard Classification Flammable liquids - Category 3: H226 Flammable liquid and vapour.; Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.; Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin.; Acute toxicity - Inhalation - Category 2: H330 Fatal if inhaled.; Health Hazard Not Otherwise Classified -Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Skin sensitizers - Category 1B: H317 May cause allergic skin reaction.; Germ cell mutagenicity - Category 2: H341 Suspected of causing genetic defects.; Carcinogenicity - Category 1B: H350 May cause cancer.; Reproductive Toxicity - Category 2: H361 Suspected of damaging fertility or the unborn child.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (USL)	Canada (NDSL)
Epichlorohydrin	106-89-8	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Epichlorohydrin	106-89-8	Present
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Epichlorohydrin	106-89-8	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Epichlorohydrin	106-89-8	Flammable liquids - Flam. Liq. 3: H226
		Flammable liquid and vapour.; Acute
		toxicity - Oral - Acute Tox. 3: H301
		Toxic if swallowed. (Minimum
		classification); Acute toxicity - Dermal -
		Acute Tox. 3: H311 Toxic in contact
		with skin. (Minimum classification);
		Acute toxicity - Inhalation - Acute Tox.
		3: H331 Toxic if inhaled. (Minimum
		classification); Skin corrosion/irritation
		- Skin Corr. 1B: H314 Causes severe
		skin burns and eye damage.; Skin
		sensitizers - Skin Sens. 1: H317 May
		cause allergic skin reaction.;
		Carcinogenicity - Carc. 1B: H350 May
		cause cancer.603-026-00-6

EU - CLP (1272/2008)

R-phrase(s)

R10 - Flammable

R34 - Causes burns

R43 - May cause sensitization by skin contact

R45 - May cause cancer

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

S -phrase(s)

S 1 - Keep locked up.

S 7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking

S23 - Do not breathe gas/fumes/vapor/spray

S36 - Wear suitable protective clothing

S46 - If swallowed, seek medical advice immediately and show this container or label

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Epichlorohydrin	106-89-8	R10 T; R23/24/25 C; R34 R43 Carc.Cat.2; R45	1%<=C T; R23/24/25 0.1%<=C<1% Xn; R20/21/22	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T - Toxic

C - Corrosive

Flammable



16. OTHER INFORMATION

Preparation Date:	03/14/2019
Revision date	03/14/19
Prepared by:	Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet