

SAFETY DATA SHEET

Preparation Date: 4/3/2017

Revision date 1/4/2019

Revision Number: G2

1. Identification

Product identifier

Product code: T2199
Product Name: 1,1,2-TRICHLOROETHANE

Other means of identification

Synonyms: Ethane trichloride
 beta-Trichloroethane
 Vinyl trichloride
CAS #: 79-00-5
RTECS # KJ3150000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent. Chemical intermediate. Adhesives.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

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 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3 Category 2
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Danger

Hazard statements

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Harmful if swallowed
Harmful if inhaled
Causes skin irritation
Causes eye irritation
Suspected of causing cancer
May cause respiratory irritation
May cause damage to organs
Causes damage to organs through prolonged or repeated exposure



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
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
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Call a *POISON CENTER* or doctor/physician if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
Call a *POISON CENTER* or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Call a *POISON CENTER* or doctor/physician if you feel unwell
Rinse mouth

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	Weight-%
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4. FIRST 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:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.
- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

- Symptoms**
- Causes skin irritation
 - Causes eye irritation
 - May cause burning or stinging sensation, and transient whitening of the skin
 - Prolonged or repeated skin contact may cause cracking, and thickening of the skin
 - May affect the liver
 - It may affect the kidneys
 - Central nervous system effects
 - Narcosis
 - anesthetic
 - Headache
 - Somnolence
 - Dizziness
 - Fainting
 - Lightheadedness
 - It may affect the peripheral nervous system
 - Paresthesia (numbness and tingling of the extremities)
 - May cause muscle weakness

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. FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
- Unsuitable Extinguishing Media:** No information available.

Specific hazards arising from the chemical

Hazardous combustion products

No information available.

Specific hazards

Container explosion may occur under fire conditions or when heated.

Special Protective Actions for Firefighters

Specific Methods:

No information available

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. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

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 containment 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).

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. 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. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. 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. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents
Strong bases
Strong acids

Powdered metals
Aluminum
Magnesium
Sodium
Potassium

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
1,1,2-Trichloroethane	79-00-5	10 ppm TWA 45 mg/m ³ TWA	10 ppm TWA 45 mg/m ³ TWA	10 ppm TWA	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
1,1,2-Trichloroethane	79-00-5	10 ppm TWA 55 mg/m ³ TWA	10 ppm TWA	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
1,1,2-Trichloroethane	79-00-5	10 ppm TWA 55 mg/m ³ TWA	10 ppm TWA 45 mg/m ³ TWA 20 ppm STEL 30 mg/m ³ STEL

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
- Skin and body protection:** Chemical resistant apron
Gloves
Long sleeved clothing
- 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: Liquid	Appearance: No information available.	Color: Clear. Colorless.
Odor: Pleasant. Sweet. Chloroform-like.	Taste No information available.	Formula C2H3Cl3
Molecular/Formula weight (g/mole): 133.41 g/mol	Flammability (solid, gas) no data available	Flashpoint (°C/°F): No information available
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): 6%
Upper Explosion Limit (%): 15.5%	Melting point/range(°C/°F): -37 to -35 °C/-34 to -31°F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 110-115°C/230-239°F	Bulk density: No information available	Density (g/cm3): 1.435-1.4416
Specific gravity: No information available	pH No information available	Vapor pressure @ 20°C (kPa): 2.53
Evaporation rate: No information available	Vapor density: 4.21-4.63	VOC content (g/L): No information available
Odor threshold (ppm): 0.5 (low) 167 (high)	Partition coefficient (n-octanol/water): Log Kow = 1.89	Viscosity: No information available
Miscibility: No information available	Solubility: Practically insoluble in water Soluble in Chloroform Soluble in esters Soluble in ketones Soluble in Ether Soluble in Alcohol	

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials:
 Strong oxidizing agents
 Strong bases
 Strong acids
 Powdered metals
 Aluminum
 Magnesium
 Sodium
 Potassium

Hazardous decomposition Hydrogen chloride.

products:

Other Information

Corrosivity: Corrosive in presence of aluminum
Corrosive in presence of zinc

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

1,1,2-Trichloroethane	
CAS No	79-00-5

LD50/oral/rat = 836 mg/kg Oral LD50 Rat
LD50/oral/mouse = 378 mg/kg oral LD50 mouse
LD50/dermal/rabbit = 5371 mg/kg Dermal LD50Rabbit (LOLI)
= 3730 uL/kg dermal LD50 rabbit (RTECS)
LD50/dermal/rat = No information available
LC50/inhalation/rat = 2.78 mg/L 8 hr. Inhalation LC50 Rat (LOLI)
= 2000 ppm 4 hr.(HSDB)
= 5.45 mg/l 8 hr.; 9.02 mg/l 6 hr. (European Chemical Bureau IUCLID dataset)
LC50/inhalation/mouse = 2.3 mg/L inhalation LC50 mouse 6h (IUCLID)
416 ppm inhalation LC50 mouse 6h (HSDB)
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
Value - Acute Tox = 836 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 378 mg/kg

LD50/dermal/rabbit
Value - Acute Tox = 5371 mg/kg

LD50/dermal/rat
VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = 2000 ppm (4-hr)
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available

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VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. May cause localized hyperemia, transient whitening of the skin, stinging and burning sensation.

Eye Contact: Causes eye irritation. Eye contact may result in redness or pain.

Inhalation Harmful by inhalation. Inhalation of high concentrations of vapor may cause anesthetic effects. May affect behavior/central nervous system (dizziness, lightheadedness, passing out). It may affect behavior/central nervous system (ataxia, general anesthetic, drowsiness). It may affect behavior/central nervous system (tremors). May cause headache. It may affect the liver.

Ingestion Harmful if swallowed. May affect behavior/central nervous system (somnolence). May affect liver.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Repeated or prolonged skin contact may cause dryness and cracking of the skin. Repeated or prolonged skin contact may cause thickening of the skin. Chronic exposure may affect the liver and kidneys. Prolonged or repeated inhalation and/or ingestion may cause central nervous system effects (affect behavior). Chronic exposure may affect the peripheral nervous system (peripheral neuropathy with muscle weakness, paresthesia - a sensation of tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles" generally of the hands and feet (extremities).

Sensitization: No information available.

Mutagenic Effects: Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects
DNA Damage - human lymphocyte

Carcinogenic effects: Suspected of causing cancer.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
1,1,2-Trichloroethane	79-00-5	Monograph 71 [1999] Monograph 52 [1991] Supplement 7 [1987]	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Not listed	Not listed	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 No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure liver. respiratory system. central nervous system.
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.
Target Organs: Skin. Liver. Kidneys. Nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.
1,1,2-Trichloroethane - 79-00-5
Algae/aquatic plants EC50: =167mg/L (96h, Desmodesmus subspicatus) EC50: =60mg/L (96h, Phaeodactylum tricornutum)
Fish LC50: =81.6mg/L (96h, Pimephales promelas) LC50: 35 - 47mg/L (96h, Lepomis macrochirus)
Crustacea EC50: =18mg/L (48h, Daphnia magna) EC50: 57 - 110mg/L (48h, Daphnia magna)
Persistence and degradability: Not readily biodegradable
Bioaccumulative potential: Potential for bioconcentration in aquatic organisms is low.
Mobility in soil No information available
Other adverse effects No information available.

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. Do not re-use empty containers
 Dispose of as unused product.

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
1,1,2-Trichloroethane	79-00-5	None	None	None	U227

14. TRANSPORT INFORMATION

DOT
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(1,1,2-trichloroethane)
Hazard Class 9
Subsidiary Class No information available
Packing group: III
Emergency Response Guide No information available

Number
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions No Information available
Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.
Description: UN3082,Environmentally hazardous substance, liquid, n.o.s. ,9,PG III

TDG (Canada)
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(1,1,2-trichloroethane)
Hazard Class 9
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No Information available
Description: UN3082,ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,9,PG III

ADR
UN Number UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(1,1,2-trichloroethane)
Transport hazard class(es) 9
Packing group III
Subsidiary Risk: No information available
Description: UN3082 Environmentally hazardous substance, liquid, n.o.s.,9,III

IMDG
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(1,1,2-trichloroethane)
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No information available
EMS: F-A

RID
UN Number UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(1,1,2-trichloroethane)
Transport hazard class(es) 9
Subsidiary Risk: No information available
Packing group III
Description: UN3082 Environmentally hazardous substance, liquid, n.o.s.,9,III

ICAO (air)
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(1,1,2-trichloroethane)
Hazard Class 9
Subsidiary Risk: No information available
Packing Group: III
Description: UN3082,Environmentally hazardous substance, liquid, n.o.s.,9,PG III

IATA
UN Number UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(1,1,2-trichloroethane)
Transport hazard class(es) 9
Subsidiary Risk: No information available
Packing group III

**Precautionary Statements - 9L
Response**

Special Provisions

No information available

Description:

UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, PG III

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
1,1,2-Trichloroethane	79-00-5	PresentACTIVE	Present KE-34069	Present	Present (2)-55	Present	Present	Present 201-166-9

U.S. Regulations

1,1,2-Trichloroethane

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 1889

New Jersey (EHS) List: 1889 500 lb TPO

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

100 lb RQ

1 lb RQ


Louisiana Reportable Quantity List for Pollutants: 100lbfinal RQ

45.4kgfinal RQ

California Directors List of Hazardous Substances: Present

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

Chemicals Known to the State of California to Cause Cancer:

 **WARNING:** This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

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

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
1,1,2-Trichloroethane	79-00-5	carcinogen	Not Listed	Not Listed	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
1,1,2-Trichloroethane	79-00-5	100 lb final RQ 45.4 kg final RQ	None	None	None	1.0 % de minimis concentration

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
1,1,2-Trichloroethane	79-00-5	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
1,1,2-Trichloroethane
79-00-5 (100)

WHMIS 2015 Hazard Classification
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;
Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled.

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 (DSL)	Canada (NDSL)
1,1,2-Trichloroethane	79-00-5	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
1,1,2-Trichloroethane	79-00-5	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
1,1,2-Trichloroethane	79-00-5	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
1,1,2-Trichloroethane	79-00-5	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 4: H312 Harmful in contact with skin. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 4: H332 Harmful if inhaled. (Minimum classification); Carcinogenicity - Carc. 2: H351 Suspected of causing cancer.; Supplemental Hazards: EUH066 Repeated exposure may cause skin dryness or cracking.602-014-00-8

EU - CLP (1272/2008)

R-phrase(s)

R40 - Limited evidence of a carcinogenic effect
R66 - Repeated exposure may cause skin dryness or cracking
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

S -phrase(s)

S 2 - Keep out of the reach of children.
S 9 - Keep container in a well-ventilated place.
S46 - If swallowed, seek medical advice immediately and show this container or label
S36/37 - Wear suitable protective clothing and gloves

Component	CAS No	Classification	Concentration Limits:	Safety Phrases

1,1,2-Trichloroethane	79-00-5	Xn; R20/21/22 Carc.Cat.3; R40 R66	5%<=C Xn; R20/21/22	S:(2)-9-36/37-46
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful

Xn



16. OTHER INFORMATION

Preparation Date: 4/3/2017
Revision date 1/4/2019
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