



## SAFETY DATA SHEET

Preparation Date: 3/12/2018 Revision Date: 3/12/2018 Revision Number: G1

## 1. IDENTIFICATION

**Product identifier** 

Product code: PA127

Product Name: PARALDEHYDE

Other means of identification

**Synonyms:** 2,4,6-Trimethyl-s-trioxane

Paraacetaldehyde
Paracetaldehyde
Paraldehyd (German)
Paraldeide (Italian)
Triacetaldehyde (French)
2,4,6-Trimethyl-1,3,5-trioxane
s-Trimethyltrioxymethylene

2,4,6-Trimetil-1,3,5-triossano (Italian)

CAS #: 123-63-7
RTECS # YK0525000
CI#: Not available

Recommended use of the chemical and restrictions on use

**Recommended use:** For use by qualified personnel for research and development or other authorized

use only.

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 numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to 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
Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 3

## Label elements

Product code: PA127 Product name: PARALDEHYDE 1 / 13

#### Warning

#### Hazard statements

Harmful if swallowed
Causes serious eye irritation
Flammable liquid and vapor





#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Wear protective gloves

Wear eye/face protection

#### **Precautionary Statements - Response**

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. If eye irritation persists: Get medical advice/attention.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Compoi	nents	CAS-No.	Weight %
Paralde	hyde	123-63-7	100

## 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.

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Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a

physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. 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 serious eye irritation

Moderate to severe eye irritation

May cause skin irritation Mild skin irritation

Abdominal discomfort, nausea, vomiting, cramping

Excessive sweating
May cause hypotension
Central nervous system effects
May cause drowsiness or dizziness

Ataxia Fatique

May cause personality and mood changes

Tremors Nervousness Irritability

May affect the liver It may affect the kidneys Decrease in urine volume

Dyspnea (Shortness of breath and difficulty breathing)

Rapid breathing

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: Carbon dioxide (CO2). Dry chemical. Alcohol-resistant

foam. Water spray.

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.

**Specific hazards:** Flammable. May be ignited by heat, sparks or flames.

Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form

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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). 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 entry into waterways,

sewers, basements or confined areas. In case of large spill, dike if needed. Dike

far ahead of liquid spill for later disposal.

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. 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 breathe vapors or spray mist. Do not ingest. 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:**

Air sensitive. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from light. Sensitive to light. Store in light-resistant containers. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

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## **Incompatible Materials:**

Oxidizing agents Acids Strong bases iodides Ammonia Amines

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **National occupational exposure limits**

#### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Paraldehyde	123-63-7	None	None	None	None

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Paraldehyde	123-63-7	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Paraldehyde	123-63-7	None	None

## **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:** Long sleeved clothing

Chemical resistant apron

Gloves

**Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Respiratory protection is not necessary for normal handling. Good room

ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:LiquidClear.Colorless.

Odor:TasteFormula:Agreeable. Aromatic.Disagreeable. Burning.C6H12O3

Molecular/Formula weight:Flammability:Flashpoint (°C/°F):132.165°C/96°F

Flammable 35.5 °C/96 °F 17 °C/62.6 °F

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Open cup 238°C/460.4 °F 1.3 % Closed cup

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 12 °C/53.6 °F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

124 °C/255.2 °F No information available No information available

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

0.9923-0.9943@ 20 °C No information available 3.37

Evaporation rate: Vapor density: VOC content (g/L):
No information available
4.5
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

 $\log Kow = 0.67$ 

Miscibility: Solubility:

Miscible with Ether Solubility in Water: Soluble in 8 parts
Miscible with Chloroform water at 25 deg. C; soluble in 17 parts

boiling water; soluble in 1in 9 parts at 20 deg C; 1 in 10 parts at 30 deg C; 1 in 11.5 parts at 37 deg C.; 12g/100 g water at 13 deg C. Solubility in sodium chloride solution: 1 in 9.5 parts at 20 deg C, 1 in 11 parts at 30 deg C, & 1 in

12.5 parts at 37deg C.

## 10. STABILITY AND REACTIVITY

Reactivity

Paraldehyde is incompatible with many plastics

Acids convert Paraldehyde into Acetaldehyde, which is prone to oxidation

**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents

Acids

Strong bases iodides
Ammonia

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**Amines** 

Hazardous decomposition

products:

Carbon monoxide.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Ingestion. Skin. Inhalation.

#### **Acute Toxicity**

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

Paraldehyde

Faralueriyue

CAS-No. 123-63-7

LD50/oral/rat = 1530 mg/kg Oral LD50 Rat

LD50/oral/mouse = 2750 mg/kg

**LD50/dermal/rabbit** = 14100 μL/kg Dermal LD50 Rabbit

**LD50/dermal/rat** = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = 3304 mg/kg oral LD50 Rabbit

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = 1530 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 2750 mg/kg

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal** = No information available

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

**Symptoms** 

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**Skin Contact:** May cause skin irritation. It may cause mild skin irritation.

**Eye Contact:** Causes serious eye irritation. Causes moderate to severe eye irritation.

Inhalation May cause irritation of respiratory tract. Symptoms may include coughing and

shortness of breath. It may cause pulmonary edema.

Ingestion Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. Ingestion

may cause nausea, vomiting. May cause abdominal pain. May cause anorexia. May affect respiration (tachypnea (rapid breathing)). May affect respiration (difficult or labored breathing resulting in shortness of breath). May affect respiration (respiratory depression). May cause metabolic acidosis. May affect respiration (acute pulmonary edema). It may affect the kidneys and liver. May affect the cardiovascular system (hypotension). It may affect the blood (leukocytosis). May cause excessive sweating. May cause muscle cramps. May

(leukocytosis). May cause excessive sweating. May cause muscle cramps. May cause mydriasis (dilated pupils). May affect behavior/central nervous system (confusion). May cause headache. May affect behavior/central nervous system (fatigue, weakness). May affect behavior/central nervous system (weakness, ataxia, somnolence, convulsions). May affect behavior/central nervous system (tremors, muscle twitiching). May affect behavior/central nervous system

(dizziness, drowsiness). It may affect behavior/central nervous system (irritability). Maya cause restlessness, nervousness. May cause unpleasant (bad) odor of the

breath. May cause cloudy urine, decreased urination

**Aspiration hazard** No information available.

Ingestion:

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

**Chronic Toxicity** It may be habit forming. Chronic exposure may affect the liver and kidneys.

Prolonged or repeated ingestion may affect the liver (Hepatitis, jaundice). Prolonged or repeated ingestion may affect behavior/central nervous system. Repeated exposure may cause headache, fatigue, muscular weakness, tremors, poor coordination, unsteady gait, tremors, nervousness, restlessness, irritability, changes in speech and personality, and/or poor memory, visual and acoustic hallucinations. Repeated exposure may cause bronchitis to develop with cough, phlegm, and /or shortness of breath. Prolonged or repeated ingestion may cause metabolic acidosis. Prolonged or repeated ingestion may cause stomach pain,

nausea, vomiting. May cause unpleasant (bad) odor of the breath.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable	Australia - Prohibited
						Carcinogenic	Carcinogenic
						Substances	Substances
Paraldehyde	123-63-7	Not listed	Not listed	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

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

Specific Target Organ Toxicity

**STOT - single exposure**STOT - repeated exposure
No information available.
No information available.

Target Organs: Liver. Kidneys.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

**Mobility:** 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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Paraldehyde	123-63-7	None	None	None	U182

## 14. TRANSPORT INFORMATION

DOT

UN-No: UN1264
Proper Shipping Name: Paraldehyde

Hazard Class: 3

Subsidiary Class No information available

Packing group: III Emergency Response Guide 129

Number

Marine Pollutant No data available DOT RQ (lbs): No information available

**Special Provisions** B1, IB3, T2, TP1

**Symbol(s):** No information available **Description:** UN1264, Paraldehyde, 3, III

TDG (Canada)

UN-No: UN1264
Proper Shipping Name: Paraldehyde

Product code: PA127 Product name: PARALDEHYDE 9 / 13

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant

Description:

No Information available
UN1264, Paraldehyde, 3, III

**ADR** 

UN-No: UN1264
Proper Shipping Name: Paraldehyde

Hazard Class: 3
Packing Group: III

**Subsidiary Risk:** No information available UN1264, Paraldehyde, 3, III

**IMO / IMDG** 

UN-No: UN1264
Proper Shipping Name: Paraldehyde

Hazard Class:

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-E

**Description** UN1264, Paraldehyde, 3, III

RID

UN-No: UN1264
Proper Shipping Name: Paraldehyde

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

**Description:** UN1264, Paraldehyde, 3, III

**ICAO** 

UN-No: UN1264
Proper Shipping Name: Paraldehyde

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

**Description:** UN1264, Paraldehyde, 3, III

**IATA** 

UN-No: UN1264
Proper Shipping Name: Paraldehyde

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group: III ERG Code: 3L

**Special Provisions**No information available **Description:**UN1264, Paraldehyde, 3, III

## 15. REGULATORY INFORMATION

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Paraldehyde	123-63-7	Present	Present KE-34698	Present	Present (2)-483	Present	Present	Present 204-639-8

## U.S. Regulations

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Paraldehyde

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: sn 1455

New Jersey (EHS) List: SN 1455 500 lb TPQ

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

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present New York Release Reporting - List of Hazardous Substances:

1000 lb RQ 100 lb RQ

Louisana Reportable Quantity List for Pollutants: Listed

FDA - 21 CFR - Total Food Additives 177.2410

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

#### Chemicals Known to the State of California to Cause Cancer:

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

#### 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)

Components	CAS-No.	Carcinogen	<b>Developmental Toxicity</b>	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Paraldehyde	123-63-7	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Components	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
Paraldehyde	123-63-7	1000 lb final RQ 454 kg final RQ	None	None		1.0 % de minimis concentration

#### U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Paraldehyde	123-63-7	Not Applicable	Not Applicable

#### Canada

## WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

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

#### WHMIS 1988 Hazard Class

B2 Flammable liquid

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
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Paraldohydo	O 1 0/
Paraidenyde	0.1 /6

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Paraldehyde	123-63-7	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Paraldehyde	123-63-7	Not listed
Components		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Paraldehyde	123-63-7	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Paraldehyde	123-63-7	Flammable liquids - Flam. Liq. 3: H226
		Flammable liquid and
		vapour.605-004-00-1

#### EU - CLP (1272/2008)

#### R-phrase(s)

R10 - Flammable.

## S -phrase(s)

S 2 - Keep out of the reach of children.

S29 - Do not empty into drains.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Paraldehyde	123-63-7	R10		S: (2)-29

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

#### Indication of danger:

Flammable

## **16. OTHER INFORMATION**

Preparation Date:3/12/2018Revision Date:3/12/2018Prepared 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

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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** 

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