



# SAFETY DATA SHEET

Preparation Date: 12/14/2018 Revision date Not applicable **Revision Number:** Not applicable

1. Identification

Product identifier

Product code: Z1148

**Product Name:** ZINC CHLORIDE, CRYSTALLINE POWEDER, USP

Other means of identification

No information available Synonyms:

CAS #: 7646-85-7 RTECS# ZH1400000 Not available CI#:

Recommended use of the chemical and restrictions on use

Recommended use: No information available. No information available Uses advised against

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

Tom Tyner (USA - West Coast) Contact Person: Ibad Tirmiz (USA - East Coast) **Contact Person:** 

# 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
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

### Label elements

Danger

Hazard statements

Harmful if swallowed

Causes severe skin burns and eye damage

May cause respiratory irritation

Product code: Z1148 Product name: ZINC CHLORIDE,

CRYSTALLINE POWEDER, USP



#### 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 Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area

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

Immediately call a POISON CENTER or doctor/physician

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.

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

Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or

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

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	Weight-%
Zinc Chloride	7646-85-7	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. Ensure that medical personnel are aware of the material(s)

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involved and take precautions to protect themselves.

**Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water

for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical

attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is 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. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. If victim is conscious, give water or milk. Immediate medical attention

is required.

### Most important symptoms and effects, both acute and delayed

**Symptoms** Severe skin and eye irritation or burns

Causes eye damage

Irritating to respiratory system

Coughing

Dyspnea (Difficulty breathing and shortness of breath)

May cause cyanosis

Causes digestive (gastrointestinal) tract irritation May cause gastrointestinal (digestive) tract burns May cause abdominal pain, nausea, vomiting, diarrhea

Central nervous system effects

May affect the cardiovascular system

It may affect the kidneys May affect the liver

### 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 A mixture of potassium and zinc chloride produces a

strong explosion on impact.

### **Special Protective Actions for Firefighters**

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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: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust

formation.

**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. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. 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 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/dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Deliquescent. Protect from moisture. 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:**

Metals

Oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

### National occupational exposure limits

### **United States**

Component CAS	No OSHA	NIOSH	ACGIH	AIHA WEEL
Zinc Chloride 7646-	85-7 1 mg/m <sup>3</sup> TWA	1 mg/m³ TWA	2 mg/m <sup>3</sup> STEL fume	None

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#### Canada

Component	CAS No	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
			Columbia		
Zinc Chloride	7646-85-7	1 mg/m <sup>3</sup> TWA fume	1 mg/m³ TWA fume	2 mg/m <sup>3</sup> STEL	None
		2 mg/m <sup>3</sup> STEL fume	2 mg/m <sup>3</sup> STEL fume		

#### **Australia and Mexico**

	Component	CAS No	Australia	Mexico
ſ	Zinc Chloride	7646-85-7	2 mg/m <sup>3</sup> STEL	1 mg/m³ TWA
			1 mg/m <sup>3</sup> TWA	2 mg/m³ STEL

### **Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

### 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:** Effective dust mask. Wear respirator with dust filter.

**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Appearance: Color: Solid Deliquescent. Crystalline powder. White.

Odor:TasteFormulaOdorless.No information available.ZnCl2

Molecular/Formula weight (g/mole): Flammability (solid, gas)

Flashpoint (°C/°F):

136.29 no data available No information available

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

Not available No information available No information available

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

No information available 290°C/554°F No information available

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

732°C/1349.6°F No information available No information available

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

2.907 No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available 4.7 No information available

Odor threshold (ppm): Partition coefficient Viscosity:

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

No information available

Miscibility: Solubility:
No information available Easily soluble in cold water, hot

water. Soluble in acetoneSolubility in Water: 432 g/100 water at 25°C; 614 g/100 g water at 100°C. One gram of Zinc Chloride is soluble in 0.25 ml of

Zinc Chloride is soluble in 0.25 ml of 2% Hydrochloric acid. One gram of Zinc

Chloride is soluble in 1.3 ml of alcohol.One gram of Zinc Chloride is

soluble in 2 ml of Glycerol

# 10. STABILITY AND REACTIVITY

Reactivity

Reactive with metals

Reactive with oxidizing agents

A mixture of potassium and zinc chloride produces a strong explosion on impact

**Chemical stability** 

**Stability:** Deliquescent. Stable at normal conditions.

<u>Possibility of Hazardous Reactions:</u> Hazardous polymerization does not occur

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

Incompatible Materials: Metals

Oxidizing agents

**Hazardous decomposition** 

products:

No information available.

Other Information

Corrosivity: Extremely corrosive in presence of aluminum

Highly corrosive in presence of copper

Slightly corrosive in presence of stainless steel (304) Slightly corrosive in presence of stainless steel (316)

Non-corrosive in the presence of glass Minor corrosive effect on bronze Severe corrosive effect on Brass

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product code: Z1148 Product name: ZINC CHLORIDE, CRYSTALLINE POWEDER, USP

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

Ingestion. Inhalation. Skin. Eyes.

### **Acute Toxicity**

#### **Component Information**

Zinc Chloride

CAS No 7646-85-7

LD50/oral/rat = 1100 mg/kg Oral LD50 Rat(LOLI); 350 mg/kg (RTECS)

**LD50/oral/mouse** = 329 mg/kg Oral LD50 Mouse **LD50/dermal/rabbit** = No information available **LD50/dermal/rat** = No information available

**LC50/inhalation/rat =** <= 1975 mg/m<sup>3</sup> 10 min Inhalation LC50

**LC50/inhalation/mouse** = No information available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Tox = 350 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 329 mg/kg

LD50/dermal/rabbit

Value - Acute Tox = 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** 

**Skin Contact:** Causes severe irritation and burns.

Eye Contact: Causes severe eye irritation and possible burns. May cause reversible eye

damage. May cause corneal opacity. May cause corneal ulceration. May cause

glaucoma.

**Inhalation** May cause severe respiratory tract irritation, and pneumonitis. It may affect

behavior/central nervous system. Symptoms may include sore throat, coughing, shortness of breath, dyspnea, chest tightness, headache, excitement, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), delayed lung edema, bronchial asthma. Inhalation of fumes may cause metal fume fever.

It is characterized by flu-like symptoms (fever, chills, cough, muscle pain,

weakness), chest pain.

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

abdominal pain, nausea, vomiting, diarrhea. May cause anorexia. May cause digestive (gastrointestinal) tract burns. May cause perforation of the digestive tract. May cause permanent damage to the digestive tract. It may also affect behavior/Central nervous system (excitement, central nervous system depression, lethargy, confusion), the urinary system (kidney damage - hematuria, oliguria, renal failure), cardiovascular system, respiration (dyspnea), metabolism (acidosis, hypercalcemia, pancreas (elevatedamylase, and glucose levels), liver (hepatic enzymes increased), and blood (changes in white and red blood cell count, anemia, leukocytosis, changes in serum composition). Zinc chloride is irritating or

caustic depending on the concentration ingested.

**Aspiration hazard** No information available.

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

**Chronic Toxicity** Prolonged or repeated skin contact may cause defatting and dermatitis.

**Sensitization:** No information available.

Mutagenic Effects: Mutations in microorganisms

Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects: Equivocal tumorigenic agent by Registery of Toxic Effects of Chemical

Substances (RTECS) criteria.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Zinc Chloride	7646-85-7	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

Reproductive Effects: May cause adverse reproductive effects based on animal data

Developmental Effects: May cause adverse developmental effects based on animal data

Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data

**Specific Target Organ Toxicity** 

**STOT - single exposure** STOT - single exposure. respiratory system.

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

Target Organs: Respiratory system. Lungs. Skin.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Product code: Z1148 Product name: ZINC CHLORIDE,

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo 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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Zinc Chloride	7646-85-7	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

UN-No: UN2331

**Proper Shipping Name:** Zinc chloride, anhydrous

Hazard Class 8

Subsidiary Class No information available

Packing group: III Emergency Response Guide 154

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsIB8, IP3, T1, TP33

Symbol(s): [DOT]: (R4) - Identifies a material that is a hazardous substance that has a

reportable quantity (RQ) of 1000 pounds (454 Kilograms).

**Description:** UN2331, Zinc chloride, anhydrous, 8, III

TDG (Canada)

**UN-No:** UN2331

Proper Shipping Name: Zinc chloride, anhydrous

Hazard Class 8

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

**Description:** UN2331, Zinc chloride, anhydrous, 8, III

ADR

UN Number UN2331

**Proper Shipping Name:** Zinc chloride, anhydrous

Transport hazard class(es) 8
Packing group | |||

Subsidiary Risk: No information available

**Description:** UN2331, Zinc chloride, anhydrous, 8, III, ENVIRONMENTALLY HAZARDOUS

Product code: Z1148 Product name: ZINC CHLORIDE, Page

**IMDG** 

UN2331 UN-No:

**Proper Shipping Name:** Zinc chloride, anhydrous

**Hazard Class:** Ρ **Subsidiary Risk: Packing Group:** Ш

**Marine Pollutant** No information available

F-A EMS:

UN2331, Zinc chloride, anhydrous, 8, III, Marine pollutant **Description** 

**RID** 

**UN Number** UN2331

**Proper Shipping Name:** Zinc chloride, anhydrous

Transport hazard class(es)

**Subsidiary Risk:** No information available

Packing group

**Description:** UN2331, Zinc chloride, anhydrous, 8, III, ENVIRONMENTALLY HAZARDOUS

ICAO (air)

UN-No: UN2331

**Proper Shipping Name:** Zinc chloride, anhydrous

**Hazard Class** 

**Subsidiary Risk:** No information available

Packing Group:

**Description:** UN2331, Zinc chloride, anhydrous, 8, III

**IATA** 

**UN Number** UN2331

**Proper Shipping Name:** Zinc chloride, anhydrous

Transport hazard class(es)

**Subsidiary Risk:** No information available

Ш Packing group **Precautionary Statements -**8L

Response

No information available **Special Provisions** 

**Description:** UN2331, Zinc chloride, anhydrous, 8, III

# 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Zinc Chloride	7646-85-7	PresentACTIV	Present	Present	Present	Present	Present	Present
		E	KE-35535		(1)-264			231-592-0

### **U.S. Regulations**

Zinc Chloride

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 2030

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:

5000 lb RQ

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100 lb RQ

Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.70,21 CFR 182.8985

FDA - 21 CFR - Total Food Additives 182.70, 182.8985, 582.80

- List Sourced from EAFUS

#### 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)

Component	CAS No	Carcinogen	<b>Developmental Toxicity</b>	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Zinc Chloride	7646-85-7	Not Listed	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
Zinc Chloride	7646-85-7	1000 lb final RQ 454 kg final RQ	None	None		1% de minimus concentration

#### U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	, -
Zinc Chloride	7646-85-7	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.

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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

Component	WHMIS Ingredient Disclosure List -
Zinc Chloride	1 %

#### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
Zinc Chloride	7646-85-7	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Zinc Chloride	7646-85-7	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting

Product code: Z1148 Product name: ZINC CHLORIDE,
CRYSTALLINE POWEDER, USP

Zinc Chloride	7646-85-7	Not listed
Ellic Chloride	1/040-03-7	INOL IISLEU

### **EU Classification**

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

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Zinc Chloride	7646-85-7	Acute toxicity - Oral - Acute Tox. 4:
		H302 Harmful if swallowed. (Minimum
		classification); Skin corrosion/irritation
		- Skin Corr. 1B: H314 Causes severe
		skin burns and eye damage.;
		Hazardous to aquatic environment -
		acute hazard - Aquatic Acute 1: H400
		Very toxic to aquatic life.; Hazardous
		to aquatic environment - chronic
		hazard - Aquatic Chronic 1: H410 Very
		toxic to aquatic life with long lasting
		effects.030-003-00-2
		Specific target organ toxicity - Single
		exposure - STOT SE 3: H335 May
		cause respiratory irritation. (C >= 5
		%)030-003-00-2

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

### R-phrase(s)

R22 - Harmful if swallowed

R34 - Causes burns

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S60 - This material and its container must be disposed of as hazardous waste

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	Classification		Safety Phrases
			Limits:	
Zinc Chloride		C; R34	5%<=C<10% Xi;	S: (1/2)-26-36/37-/39-45- 60-61

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

# Indication of danger:

C - Corrosive





# **16. OTHER INFORMATION**

**Preparation Date:** 12/14/2018 **Revision date** Not applicable

Product code: Z1148 Product name: ZINC CHLORIDE,

Prepared by: Sonia Owen

Disclaimer: All

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** 

Product code: Z1148

Product name: ZINC CHLORIDE, CRYSTALLINE POWEDER, USP