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# **Material Safety Data Sheet**

# 1. Product and Company Identification

Product Name

: Zinc Chloride (Granular)

Identification of the product

: Powder

Chemical formula

: ZnCl,

Synonyms

: Zinc Dichloride, Zinc Butter

CAS No.

: 7646-85-7

# 2. Composition, Information on Ingredients

# Composition:

Ingredient	CAS NO.	% by weight
Zinc Chloride	7646-85-7	> 90

# 3. Hazards Identification

Physical / Chemical hazards

: Corrosive, no other significant chemical hazard.

Environmental hazards

: Toxic to aquatic organism, May cause long term adverse effects in the aquatic environment. Hygroscopic (absorbs moisture from the air). Corrosive to metal.

Potential Health Effects

: Causes burns by exposure routes. Harmful if swallowed.

Inhalation

: Causes chemical burns to the respiratory tract.

- Skin

DAIL

: Causes skin burns.

- Eve

: Causes eye burns.

- Ingestion

: Harmful if swallowed. Causes gastrointestinal tract burns.

- Chronic

: Repeated skin contact can cause varying degrees of problems ranging from dermatitis to

ulcerations. Repeated Inhalation can cause occupational asthma.

4. First Aid Measures	
Inhalation	: If haled, remove to fresh air. If not breathing, give artifical respiration. If breathing is
24	difficult, give oxygen. Get medical aid.
Skin	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes
	while removing contaminated clothing and shoes. Get medical aid immediately. Wash
	clothing before reuse.
Eye	: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting
	the upper and lower eyelids. Get medical aid immediately.
Ingestion	: If swallowed, do Not induce vomiting. Get medical aid immediately. If victim is fully
	conscious, give a cupful of water. Never give anything by mouth to an unconscious

person.

: No information found.

	Title and	TOTAL ASSESSMENT	W. Carrier	-
3.	rire	Fighting	MERSI	TES

Chronic

5. Fire Fighting Measures	
General Information	: As in any fire, wear a self-contained breathing apparatus in pressure-demand,
	MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media	: Use foam, dry chemical, or carbon dioxide.
Flash Point	: Not applicable
Autoignition Temperature	: Not applicable
Explosion Limits, Lower	: Not available
Upper	: Not available

# 6. Accidental Release Measures

Personal precautions	: Wear suitable gloves and eye/face protection.
Methods for cleaning up	: Vacuum or sweep up material and place into a suitable disposal container. Avoid
	generating dusty conditions. Provide ventilation. Do not let this chemical enter the
	environment.

# 7. Handling and storage

Handling	: Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing.
	Do not ingest or inhale. Use only in a chemical fume hood.
Storage	: Store in a cool, dry place. Store in a tightly closed container. Corrosive area. Do not store

# 8. Exposure Controls, Personal Protection

#### **Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA-Final PELs
Zinc Chloride	1 mg/m³ TWA (fume); 2 mg/m³ STEL (fume)	1 mg/m³ TWA (fume) 50 mg/m³ IDLH (fume)	1 mg/m <sup>3</sup> TWA (fume)

#### Personal Protective Equipment

Eyes

: Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin

: Wear appropriate protective gloves to prevent skin exposure.

Clothing

: Wear appropriate protective clothing to prevent skin exposure.

Respirators

: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2

requirements or European Standard EN 149 must be followed whenever workplace

conditions warrant respirator use.

# 9. Physical and Chemical Properties

Appearance

: Crystalline powder/granule

Colour

: White/Pale yellow

Odour

: Odourless

pH value

: 5 (100g/L aq.sol.)

Boiling point (°C)

: 732 deg C

Melting point (°C)

: 293 deg C

Solubility in water

: 432 g/100 ml (@25 deg C).

Specific Gravity / Density

: 2.91

# 10. Stability and Reactivity

Stability

: Absorbs moisture or water from air.

Materials to avoid

: Metals, strong oxidizing agents.

Conditions to avoid

: Incompatible materials, dust generation, exposure to moist air or water.

Hazardous decomposition products

: Hydrogen chloride, when heated to decomposition it emits toxic fumes of chlorine and

zinc oxide.

Hazardous polymerization

: Will not occur.

#### 11. Toxicological Information

Toxicity to animals

: LD50 / oral / rat = 350 mg/kg., LD50 / oral / mouse = 329 mg/kg.

Chronic Effects on Humans

: Severe skin, eye irritation.

Other Toxic Effects on Humans

: Tumorigenic, Teratogenic, Mutagenic and Neurotoxic effects have occurred in

experiment animals.

Carcinogenicity

: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Reproductive Effects

: Adverse reproductive effects have occured in experimental animals.

# 12. Ecological Information

Ecotoxicity

: No data available. No information available.

Physical

: No information available.

**Environmental Toxicity** 

: No information available.

# 13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series** 

: None listed.

RCRA U-Series

: None listed.

## 14. Transport Information

UN/NA

: UN2331

DOT

: 8 (Corrosive)

IMDG / ADR Class

IATA Class

: 8 (Corrosive)

: 8 (Corrosive)

UN Packing group

: III

# 15. Regulatory Information

#### US FEDERAL

#### TSCA

CAS# 7646-85-7 is listed on the TSCA inventory.

### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding ROs

CAS# 7646-85-7: 1000 lb final RQ; 454 kg final RQ.

## SARA Section 302 Extremely Hazardous Substance

None of the Chemicals in this product have a TPO.

#### SARA Codes

CAS# 7646-85-7: immediate.

#### Section 313

This material contains Zinc chloride (listed as Zinc compounds), >97%, (CAS# 7646-85-7) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

#### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### Clean Water Act:

CAS# 7646-85-7 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 7646-85-7 is listed as a Toxic Pollutant under the Clean Water Act.

# OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 7646-85-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania,

Minnesota, Massachusetts.

#### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

#### European / International Regulations

## European Labeling in Accordance with EC Directives

#### Hazard Symbols:

CN

#### Risk Phrases:

- R 22 Harmful if swallowed.
- R 34 Causes burns.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety Phrases:

- S 26 In case of contact with eyes, rince immediately with plenty of water and seek medical advice.
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the lable where possible).
- S 60 This material and its container must be disposes of as hazardous waste.
- S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

#### WGK (Water Danger / Protection)

CAS# 7646-85-7: 1

#### Canada - DSL/NDSL

CAS# 7646-85-7 is listed on Canada's DSL List.

#### Canada - WHMIS

This product has a WHMIS classification of E, D1B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

#### Canadian Ingredient Disclosure List

CAS# 7646-85-7 is listed on the Canadian Ingredient Disclosure List.

# 16. Other Information

Product Use : Industrial

MSDS Creation date (dd/mm/yy) : 16/01/08

Last Updated : Revision 1, Date : 30/09/11

Effective date (dd/mm/yy) : 06/10/11

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