# Safety Data Sheet: HY-ZINC AEROSOL

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HY-ZINC AEROSOL Recommended use Corrosion inhibitor Information on Manufacturer CHEMSEARCH DIV. OF NCH CORP.

BOX 152170 IRVING, TX 75015 Product Code 5519
Chemical nature Solvent mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

#### 2. HAZARD IDENTIFICATION

 Color Dark gray
 Physical State Liquid
 Odor Aromatic

### GHS

#### Classification

Physical Hazards

Flammable aerosols Category 1
Gases under pressure Compressed Gas

#### Health Hazard

Skin Corrosion/Irritation

Reproductive Toxicity

Specific target organ systemic toxicity (single exposure)

Specific target organ systemic toxicity (repeated exposure)

Category 2

Category 3

Specific target organ systemic toxicity (repeated exposure)

Category 2

Other hazards

None

Labeling Signal Word DANGER









## Hazard Statements

H222 - Extremely flammable aerosol

H336 - May cause drowsiness or dizziness

H315 - Causes skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H361 - Suspected of damaging fertility or the unborn child

H280 - Contains gas under pressure; may explode if heated

## Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P251 - Pressurized container: Do not pierce or burn, even after use

P211 - Do not spray on an open flame or other ignition source

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye protection.

P260 - Do not breathe vapor, mist or gas

P271 - Use in a well-ventilated area.

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

 ${\sf P332 + P313 - If \ skin \ irritation \ occurs, \ get \ medical \ attention.}$ 

P362 - Take off contaminated clothing and wash before reuse

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position

comfortable for breathing.

P312 - Call a physician if unwell.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122  $^{\circ}\text{F}$ 

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

 $\mbox{P501}$  - Dispose of contents and container in accordance with applicable regulations.

46 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION / INFORMATION ON INGREDIENTS Component CAS-No Weight % Zinc 7440-66-6 30-60

Toluene	108-88-3	10-30
Propane	74-98-6	7-13
Isobutyl acetate	110-19-0	7-13
Butane	106-97-8	3-7
Mineral spirits	64742-47-8	1-5
Zinc oxide	1314-13-2	1-5
1-Methyl-2-pyrrolidinone	872-50-4	0.1-1

## 4. FIRST AID MEASURES

General advice Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation

develops and persists.

Skin Contact Wipe up with absorbent material (e.g. cloth, fleece). Wash off with soap and plenty of water. Get

medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial

respiration. Get medical attention immediately.

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur. Ingestion

Notes to physician Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

**Flash Point** -2 °F / -19 °C Method Tag closed cup Lower 1.1 Flammability Limits in Air % Mixture. **Upper** 10.5

Suitable Extinguishing Media

Inhalation

Carbon dioxide (CO2). Dry chemical. Water spray. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Specific hazards arising from the chemical

Extremely flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Aerosol Level (NFPA 30B) -

**NFPA** Health 2 Flammability 4 Instability 0 **HMIS** Health 2 Flammability 4 Instability 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures

against static discharges. Remove all sources of ignition. Material can create slippery conditions.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

**Methods for Containment** Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national

regulations (see section 13).

Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled

containers.

**Neutralizing Agent** Not applicable.

#### 7. HANDLING AND STORAGE

Handling Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors, mist or

gas. Avoid contact with skin, eyes and clothing.

Keep away from heat and sources of ignition. Store in original container. Keep containers tightly Storage

closed in a dry, cool and well-ventilated place.

Storage Temperature 35 °F / 2 °C Maximum 120 °F / 49 °C Minimum **Storage Conditions** Indoor Χ Outdoor Heated Refrigerated

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines** 

Component	ACGIH TLV	OSHA PEL	NIOSH
Toluene	TWA: 20 ppm	TWA: 200 ppm	500 ppm
		Ceiling: 300 ppm	STEL 150 ppm
			STEL 560 mg/m <sup>3</sup> TWA: 100 ppm

			TWA: 375 mg/m <sup>3</sup>
Propane	TWA: 1000 ppm	TWA: 1000 ppm	2100 ppm
		TWA: 1800 mg/m <sup>3</sup>	TWA: 1000 ppm
			TWA: 1800 mg/m <sup>3</sup>
Isobutyl acetate	TWA: 150 ppm	TWA: 150 ppm	1300 ppm
		TWA: 700 mg/m <sup>3</sup>	TWA: 150 ppm
			TWA: 700 mg/m <sup>3</sup>
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm
			TWA: 1900 mg/m <sup>3</sup>
Zinc oxide	TWA: 2 mg/m <sup>3</sup> respirable fraction	TWA: 5 mg/m <sup>3</sup> fume	500 mg/m <sup>3</sup>
	STEL: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	Ceiling: 15 mg/m <sup>3</sup>
		TWA: 5 mg/m <sup>3</sup> respirable fraction	STEL 10 mg/m <sup>3</sup>
			TWA: 5 mg/m <sup>3</sup> dust and fume

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

**Eye/Face Protection** Skin Protection **Respiratory Protection** 

Tightly fitting safety goggles.

Wear suitable protective clothing, Impervious gloves.

In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators.

Temperatures above 120 °F.

**General Hygiene Considerations** 

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Viscosity

Odor

**Physical State** Liquid Color Dark grav **Odor Threshold** Not applicable pН No data available **Evaporation Rate** >1 (BuAc=1, ) VOC Content (%) 45.4 **Vapor Pressure** 2063 mmHg @ 0 °C Solubility No information available Melting Point/Range No data available -166 °F / -110 °C **Boiling Point/Range** 

-2 °F / -19 °C No information available.

Mixture. **Upper** 10.5 **Lower** 1.1

**Appearance** Opaque Specific Gravity 0.85 Percent Volatile (Volume) >45 VOC Content (g/L) 593.8 Vapor Density > 1 (Air = 1)n-Octanol/Water Partition No data available **Decomposition Temperature** No data available Flammability (solid, gas) No data available Method Tag closed cup

Viscous

Aromatic

## 10. STABILITY AND REACTIVITY

**Chemical Stability** 

**Autoignition Temperature** 

Flammability Limits in Air %

Flash Point

Stable under normal conditions. **Conditions to Avoid** Keep away from open flames, hot surfaces, and sources of ignition,

**Incompatible Products** No materials to be especially mentioned

**Hazardous Decomposition Products** None under normal use Possibility of Hazardous Reactions None under normal processing

#### 11. TOXICOLOGICAL INFORMATION

**Product Information** No information available.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 No information available **Dermal LD50** No information available Inhalation LC50

Gas No information available Mist No information available Vapor No information available

Eye contact, Skin contact, Inhalation. **Principle Route of Exposure Primary Routes of Entry** Inhalation, Skin Absorption.

**Acute Effects** 

Eves May cause eye irritation.

Skin Causes skin irritation. May be absorbed through the skin in harmful amounts.

Inhalation Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. **Chronic Toxicity** 

May cause damage to organs through prolonged or repeated exposure if inhaled. May cause damage to the kidneys/liver/eyes/brain/respiratory system/central nervous system if inhaled. Liver and kidney injuries may occur. Suspect reproductive hazard - contains material which may injure

unborn child.

**Target Organ Effects** Central nervous system, Heart, Eyes, Kidney, Liver, Respiratory system, Skin, Reproductive System,

Spleen, Adrenal gland.

**Aggravated Medical Conditions** Component Information

Neurological disorders, Kidney disorders, Liver disorders, Respiratory disorders.

**Acute Toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Toluene	= 636 mg/kg ( Rat )	= 8390 mg/kg ( Rabbit ) =	= 12.5 mg/L ( Rat ) 4 h >	no data available	no data available
		12124 mg/kg ( Rat )	26700 ppm (Rat) 1 h		
Propane	no data available	no data available	= 658 mg/L ( Rat ) 4 h	no data available	no data available
Isobutyl acetate	= 15400 mg/kg ( Rat )	> 17400 mg/kg ( Rabbit )	no data available	no data available	no data available
Butane	no data available	no data available	= 658 g/m <sup>3</sup> ( Rat ) 4 h	no data available	no data available
Mineral spirits	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h	no data available	no data available
Zinc oxide	> 5000 mg/kg ( Rat )	no data available	no data available	no data available	no data available
1-Methyl-2-pyrrolidinone	= 3598 mg/kg ( Rat )	= 8 g/kg ( Rabbit )	= 3.1 mg/L ( Rat ) 4 h	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Toluene	no data available	no data available	yes	yes	CNS, eyes, kidneys, liver,
					respiratory system, skin,
					reproductive system
Propane	no data available	no data available	no data available	no data available	CNS, heart
Isobutyl acetate	no data available	no data available	no data available	no data available	eyes, CNS, respiratory
					system,skin
Butane	no data available	no data available	no data available	no data available	CNS, heart
Zinc oxide	no data available	no data available	no data available	no data available	respiratory system
1-Methyl-2-pyrrolidinone	no data available	no data available	no data available	no data available	Respiratory system,
					spleen, adrenal gland,
					kidney, liver

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Toluene	not applicable	Group 3	not applicable	not applicable	not applicable

# 12. ECOLOGICAL INFORMATION

**Product Information** 

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Zinc	EC50 0.09 - 0.125 mg/L Pseudokirchneriella subcapitata 72 h EC50 0.11 - 0.271 mg/L Pseudokirchneriella subcapitata 96 h	LC50 0.211 - 0.269 mg/L Pimephales promelas 96 h LC50 2.16 - 3.05 mg/L Pimephales promelas 96 h LC50 = 0.24 mg/L Oncorhynchus mykiss 96 h LC50 = 0.41 mg/L Oncorhynchus mykiss 96 h LC50 = 0.45 mg/L Cyprinus carpio 96 h LC50 = 0.59 mg/L Oncorhynchus mykiss 96 h LC50 = 2.66 mg/L Pimephales promelas 96 h LC50 = 3.5 mg/L Lepomis macrochirus 96 h LC50 = 30 mg/L Cyprinus carpio 96 h LC50 = 30 mg/L Cyprinus carpio 96 h LC50 = 7.8 mg/L Cyprinus carpio 96 h		0.139 - 0.908: 48 h Daphnia magna mg/L EC50 Static	N/A
Toluene	EC50 = 12.5 mg/L Pseudokirchneriella subcapitata 72 h EC50 > 433 mg/L Pseudokirchneriella subcapitata 96 h	LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 14.1 - 17.16 mg/L Oncorhynchus mykiss 96 h LC50 15.22 - 19.05 mg/L Pimephales promelas 96 h LC50 5.89 - 7.81 mg/L		5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50	

		Oncorhynchus mykiss 96 h LC50 50.87 - 70.34 mg/L Poecilia reticulata 96 h LC50 = 12.6 mg/L Pimephales promelas 96 h LC50 = 28.2 mg/L Poecilia reticulata 96 h LC50 = 5.8 mg/L Oncorhynchus mykiss 96 h LC50 = 54 mg/L Oryzias latipes 96 h			
Propane	no data available	no data available	no data available	no data available	2.3
Isobutyl acetate	no data available	no data available	no data available	no data available	1.72
Butane	no data available	no data available	no data available	no data available	2.89
Mineral spirits	no data available	LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h LC50 = 45 mg/L Pimephales promelas 96 h	no data available	no data available	N/A
1-Methyl-2-pyrrolidinone	EC50 > 500 mg/L Desmodesmus subspicatus 72 h	LC50 = 1072 mg/L Pimephales promelas 96 h LC50 = 1400 mg/L Poecilia reticulata 96 h LC50 = 832 mg/L Lepomis macrochirus 96 h	no data available	4897: 48 h Daphnia magna mg/L EC50	-0.46

Persistence and Degradability

Bioaccumulation Mobility No information available. No information available. No information available.

## 13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.

Container Disposal Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be

taken for local recycling, recovery, or waste disposal.

# 14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer commodity

Hazard Class ORM-D

**Description** Consumer commodity, ORM-D

TDG

Proper shipping name Aerosols
Hazard Class 2.1
UN-No UN1950

ICAO

UN-No UN1950

Proper Shipping Name Aerosols, flammable

Hazard Class 2.1

Shipping Description UN1950, AEROSOLS, 2.1, LTD QTY

IATA

**UN-No** UN1950

Proper Shipping Name Aerosols, flammable

Hazard Class 2.1 ERG Code 10L

Shipping Description UN1950, AEROSOLS, 2.1, LTD QTY

IMDG/IMO

 Proper Shipping Name
 Aerosols

 Hazard Class
 2.1

 UN-No
 UN1950

 EmS No.
 F-D, S-U

Shipping Description UN1950, AEROSOLS, 2.1, LTD QTY

## 15. REGULATORY INFORMATION

Inventories

TSCA Does not Comply DSL Does not Comply

**U.S. Federal Regulations** 

**SARA 313** 

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Zinc	7440-66-6	30-60	1.0
Toluene	108-88-3	10-30	1.0
Zinc oxide	1314-13-2	1-5	1.0
1-Methyl-2-pyrrolidinone	872-50-4	0.1-1	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No
Yes   CLA	Yes	Yes	Yes	l l

02.102.1		
Component	Hazardous Substances RQs	CERCLA EHS RQs
Zinc		Not applicable
	1000 lb	
Toluene	1000 lb	Not applicable
Isobutyl acetate	5000 lb	Not applicable

## 16. OTHER INFORMATION

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Reason for RevisionNo information available.GlossaryNo information available.List of References.No information available.

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