



Safety Data Sheet HY-ZINC

Supersedes Date DEC 2016

Issuing Date JUNE 2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HY-ZINC

Product Code 5028

Recommended use Anti - corrosive zinc rich surface coating
.Corrosion inhibitor

Chemical nature Solvent mixture

Manufacturer, importer, supplier

NCH AUSTRALIA PTY LTD, DIV. OF NCH CORPORATION
N2, 391, PARK ROAD, REGENTS PARK, NSW 2143

Distributor

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2. HAZARD IDENTIFICATION

Colour Dark Gray

Physical state Liquid

Odour Aromatic

Mixture or Pure Substance: Mixture

GHS

Classification

Physical Hazards

Flammable Aerosols

Gases under pressure

Category 1

Compressed Gas

Health Hazard

Aspiration Toxicity

Skin Corrosion/Irritation

Specific target organ systemic toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Category 1

Category 2

Category 3

Category 2

Other Hazards

None

Labelling

Signal Word **Danger**



Hazard

Statements

H222 - Extremely flammable aerosol

H280 - Contains gas under pressure; may explode if heated

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

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

Precautionary

Statements

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

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

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

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

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

P271 - Use in a well-ventilated area.

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

P301+ P310 - IF SWALLOWED: Immediately call a physician

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

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

P332 + P313 - If skin irritation occurs, get medical attention.

P331 - DO NOT induce vomiting

P362 - Take off contaminated clothing and wash before reuse

P314 - Get medical advice/attention if you feel unwell

P410 + P403 - Protect from sunlight. Store in a well-ventilated place

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C

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

P405 - Store locked up

P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No. | Weight % * |
|-----------|-----------|------------|
| Zinc | 7440-66-6 | 30-60 |
| Toluene | 108-88-3 | 10-30 |

| | | |
|-----------------------|------------|------------|
| DIMETHYL ETHER | 115-10-6 | 10-20 |
| Non-hazardous mixture | - | up to 100% |
| Mineral spirits | 64742-47-8 | 0-10 |

4. FIRST AID MEASURES

| | |
|---------------------------|--|
| General advice | Avoid breathing vapours, 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. |
| Inhalation | Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately. |
| Ingestion | Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur. |
| Notes to physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | | | |
|---|---|---------------|----------------|
| Flash Point | -41 °C | Method | Tag closed cup |
| Auto ignition Temperature | No information available. | | |
| Flammability Limits in Air %: | Mixture. | Upper: | 10.5 |
| | | Lower: | 1.1 |
| Suitable Extinguishing Media | Carbon dioxide (CO ₂). 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 vapours are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. | | |
| Protective Equipment and Precautions for Fire-fighters | As in any fire, wear self-contained breathing apparatus pressure-demand, Safe Work Australia (approved or equivalent) and full protective gear. | | |

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 labelled containers. |
| Neutralizing Agent | Not applicable. |

7. HANDLING AND STORAGE

| | | | | |
|----------------------------|--|------|----------------|-----------------------------------|
| Handling | Keep away from open flames, hot surfaces and sources of ignition Avoid breathing vapours, mist or gas Avoid contact with skin, eyes and clothing | | | |
| Storage | Keep away from heat and sources of ignition Store in original container Keep containers tightly closed in a dry, cool and well-ventilated place | | | |
| Storage Temperature | Minimum | 2 °C | Maximum | 49 °C |
| Storage Conditions | Indoor | X | Outdoor | Heated Refrigerated |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

| Component | ES-TWA | ISHL | ACGIH TLV | Toluene | skin notation STEL: 150 ppm STEL: 574 mg/m ³ TWA: 50 ppm TWA: 191 mg/m ³ | ACL: 20 ppm | TWA: 20 ppm |
|----------------|--|----------------------|----------------------|---------|---|-------------|-------------|
| DIMETHYL ETHER | STEL: 500 ppm STEL: 950 mg/m ³ TWA: 400 ppm TWA: 760 mg/m ³ | no data available | No data available | | | | |

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

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment When workers are facing concentrations above the exposure limit they must use appropriate certified respirators Tightly fitting safety goggles.

Eye/Face Protection

Hand Protection

Protective gloves

Skin Protection

Wear suitable protective clothing, Impervious gloves.

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

| | |
|---------------------------|----------------------------------|
| Appearance | Opaque |
| Colour | Dark Gray |
| Physical state | A dark grey/silver opaque liquid |
| Odour | Aromatic/Hydrocarbon odour |
| Odour Threshold | No data available |
| pH | No data available |
| Melting Point/Range | No data available |
| Freezing Point | No information available |
| Boiling Point/Range | -25 °C |
| Flash Point | -41 °C |
| Method | Tag closed cup |
| Evaporation Rate | >1 (BuAc=1, >11) |
| Vapour Pressure | 31mmHg @ 0 °C |
| Solubility | No information available. |
| Vapour Density | 3.0 (Air = 1) |
| Specific Gravity | 1.80-1.90 |
| Auto ignition Temperature | No information available. |
| Viscosity | Semi- Viscous |
| Molecular Weight | No data available |
| Percent Volatile (Volume) | 70 |
| VOC Content (%) | No data available |
| VOC Content (g/L) | No data available |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Chemical Stability Conditions to Avoid Incompatible Products Hazardous Decomposition Products Possibility of Hazardous Reactions | Stable under normal conditions. Keep away from open flames, hot surfaces, and sources of ignition, Temperatures above 50 °C. No materials to be especially mentioned. None under normal use. None under normal processing. |
|---|--|

11. TOXICOLOGICAL INFORMATION

Product Information

Principle Route of Exposure Eye contact, Skin contact, Inhalation.

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

Oral LD50 No information available
Dermal LD50 No information available

Inhalation LC50

Gas Not applicable
Mist not applicable
Vapour not applicable

Primary Routes of Entry

Skin contact, Skin Absorption.

Main Symptoms

Acute Effects:

Eyes 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 diarrhoea.

Chronic Effects:

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

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

Component Information

Acute Toxicity

| Component | Oral LD50 | Dermal LD50 | Inhalation LC50 | Draize Test | Other |
|-----------------|--------------------------|--|--|-------------------|-------------------|
| Toluene | = 636 mg/kg (Rat) | = 8390 mg/kg (Rabbit)) = 12124 mg/kg (Rat) | = 12.5 mg/L (Rat) 4 h > 26700 ppm (Rat) 1 h | no data available | no data available |
| DIMETHYL ETHER | No information available | Not applicable | = 308.5 mg/L (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 |

Chronic Toxicity

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|-----------|-------------------|----------------|------------------------|-----------------------|--|
| Toluene | no data available | Not applicable | X | no data available. | Skin Central nervous system Eyes Respiratory system Liver Kidney Reproductive System |

Carcinogenicity

| Component | ES | ACGIH | IARC | NTP | Other |
|-----------|----------------|----------------|---------|----------------|----------------|
| Toluene | not applicable | not applicable | Group 3 | not applicable | not applicable |

12. ECOLOGICAL INFORMATION

Product Information No data available

Component Information

| Component | Toxicity to Algae | Toxicity to Fish | Microtox | Crustacea | log Pow |
|-----------------|--|--|-------------------------|---|---------|
| Zinc | EC50 0.11 - 0.271 mg/L Pseudokirchneriella subcapitata 96 h EC50 0.09 - 0.125 mg/L Pseudokirchneriella subcapitata 72 h | LC50 2.16 - 3.05 mg/L Pimephales promelas 96 h LC50 0.211 - 0.269 mg/L Pimephales promelas 96 h LC50 = 2.66 mg/L Pimephales promelas 96 h LC50 = 30 mg/L Cyprinus carpio 96 h LC50 = 0.45 mg/L Cyprinus carpio 96 h LC50 = 7.8 mg/L Cyprinus carpio 96 h LC50 = 3.5 mg/L Lepomis macrochirus 96 h LC50 = 0.24 mg/L Oncorhynchus mykiss 96 h LC50 = 0.59 mg/L Oncorhynchus mykiss 96 h LC50 = 0.41 mg/L Oncorhynchus mykiss 96 h | no data available | 0.139 - 0.908: 48 h Daphnia magna mg/L EC50 Static | N/A |
| Toluene | EC50 > 433 mg/L Pseudokirchneriella subcapitata 96 h EC50 = 12.5 mg/L Pseudokirchneriella subcapitata 72 h | LC50 15.22 - 19.05 mg/L Pimephales promelas 96 h LC50 = 12.6 mg/L Pimephales promelas 96 h LC50 5.89 - 7.81 mg/L Oncorhynchus mykiss 96 h LC50 14.1 - 17.16 mg/L Oncorhynchus mykiss 96 h LC50 = 5.8 mg/L Oncorhynchus mykiss 96 h LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 = 54 mg/L Oryzias latipes 96 h LC50 = 28.2 mg/L Poecilia reticulata 96 h LC50 50.87 - 70.34 mg/L Poecilia reticulata 96 h | EC50 = 19.7 mg/L 30 min | 5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50 | 2.65 |
| DIMETHYL ETHER | Not applicable | Oral | no data available | Not applicable | -0.18 |
| Mineral spirits | Not applicable | LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h | no data available | Not applicable | N/A |

Eco toxicity effects No information available

Persistence and Degradability No information available

Bioaccumulation No information available

Mobility No information available

13. DISPOSAL CONSIDERATIONS

Product Disposal
Container Disposal

Dispose of contents/container in accordance with local regulation.
Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

ADG 7

| | |
|----------------------|-------------------------------|
| UN-No | UN1950 |
| Proper Shipping Name | Aerosols |
| Hazard Class | 2.1 |
| Haz chem Code | 2YE |
| Description | UN1950, AEROSOLS,2.1, LTD QTY |

15. REGULATORY INFORMATION

Australia

| Component | | Toluene | Listed |
|-----------|--|---------|--------|
| | | | |

POISON SCHEDULE

Schedule 6

16. OTHER INFORMATION

| | |
|---------------------|---------------------------|
| Prepared By | Arvind Rane |
| Super cedes Date | DEC 2016 |
| Issuing Date | JUNE 2020 |
| Reason for Revision | GHS-SDS FORMAT |
| List of References. | No information available. |

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