SAFETY DATA SHEET

HY - ZINC

Infosafe No.: ESS31
ISSUED Date : 30/06/2020
ISSUED by: NCH AUSTRALIA PTY LTD

1. Identification

GHS Product Identifier
HY - ZINC

Product Code
5028

Company name
NCH AUSTRALIA PTY LTD

Address
N2, 391, PARK ROAD REGENTS PARK
NSW 2143 AUSTRALIA

Telephone/Fax Number
Tel: +61-2-96690260
Fax: +61-2-96931562

Emergency phone number
+61-2-96690237/0401718972

Recommended use of the chemical and restrictions on use
Anti - corrosive zinc rich surface coating. Corrosion inhibitor

Additional Information
Chemical nature: Solvent mixture

2. Hazard Identification

GHS classification of the substance/mixture
Aspiration Hazard: Category 1
Flammable Aerosol: Category 1
Gases under Pressure: Compressed Gas
Skin Corrosion/Irritation: Category 2
STOT Repeated Exposure: Category 2
STOT Single Exposure: Category 3 (narcotic)

Signal Word (s)
DANGER

Hazard Statement (s)
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.

Pictogram (s)
Flame,Gas cylinder,Exclamation mark,Health hazard

Precautionary statement – Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
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 contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

Precautionary statement – Storage
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.

Precautionary statement – Disposal
P501 Dispose of contents and container in accordance with applicable local regulations.

Other Information
Mixture or Pure Substance: Mixture

3. Composition/information on ingredients

Ingredients

Name	CAS	Proportion
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

First Aid Measures
General advice: Avoid breathing vapours, mist, or gas. Avoid contact with skin, eyes and clothing.

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.

Skin
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.

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Advice to Doctor
Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media
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 vapours are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.

Hazchem Code
2YE

Precautions in connection with Fire
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

Methods And Materials For Containment And Cleaning Up
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(Disposal Considerations)).

Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labelled containers.

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.

Other Information
Neutralizing Agent: Not applicable.

7. Handling and storage

Precautions for Safe 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

Conditions for safe storage, including any incompatibilities
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 Conditions: Indoor

Storage Temperatures
Minimum: 2 °C
Maximum: 49 °C

8. Exposure controls/personal protection

Occupational exposure limit values
Component: Toluene skin notation
ES-TWA:
STEL: 150 ppm
STEL: 574 mg/m³
TWA: 50 ppm
TWA: 191 mg/m³
ISHL: ACL: 20 ppm
ACGIH TLV: TWA: 20 ppm

Component: DIMETHYL ETHER
ES-TWA:
STEL: 500 ppm
STEL: 950 mg/m³
TWA: 400 ppm
TWA: 760 mg/m³
ISHL: no data available
ACGIH TLV: No data available

Appropriate engineering controls
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.

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

Eye Protection
Tightly fitting safety goggles.

Hand Protection
Protective gloves

Body Protection
Skin Protection: Wear suitable protective clothing, Impervious gloves.

Hygiene Measures
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

Properties	Description	Properties	Description
Form	Liquid	**Appearance**	Opaque
Colour	Dark Gray	**Odour**	Aromatic/Hydrocarbon odour
Melting Point	No data available	**Freezing Point**	No information available
Boiling Point	-25°C	**Solubility**	No information available.
Specific Gravity	1.80-1.90	**pH**	No data available
Vapour Pressure	31mmHg @ 0 °C	**Vapour Density (Air=1)**	3.0 (Air = 1)
Evaporation Rate	>1 (BuAc=1, >11)	**Physical State**	A dark grey/silver opaque liquid
Odour Threshold	No data available	**Viscosity**	Semi- Viscous
Volatile Component	70%	**Flash Point**	-41°C (Tag Closed Cup)
Auto-Ignition Temperature	No information available.	**Flammable Limits - Lower**	1.1 %: Mixture
Flammable Limits - Upper	10.5 %: Mixture	**Molecular Weight**	No data available

Other Information
VOC Content (%): No data available
VOC Content (g/L): No data available

10. Stability and reactivity

Chemical Stability
Stable under normal conditions.

Conditions to Avoid
Keep away from open flames, hot surfaces, and sources of ignition, Temperatures above 50 °C.

Incompatible materials
No materials to be especially mentioned.

Hazardous Decomposition Products
None under normal use.

Possibility of hazardous reactions
None under normal processing.

11. Toxicological Information

Toxicology 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

Primary Routes of Entry: Skin contact, Skin Absorption.

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.

Acute Toxicity - Oral
LD50: No information available

Acute Toxicity - Inhalation
LC50:
Gas: Not applicable
Mist: not applicable
Vapour: not applicable

Acute Toxicity - Dermal
LD50: No information available

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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.

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

Eye
May cause eye irritation.

Carcinogenicity
Component: Toluene
ES: not applicable
ACGIH: not applicable
IARC: Group 3
NTP: not applicable
Other: not applicable

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

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.

Other Information
Component Information

Acute Toxicity
Component: Toluene
Oral LD50: = 636 mg/kg (Rat)
Dermal LD50: = 8390 mg/kg (Rabbit) = 12124 mg/kg (Rat)
Inhalation LC50: = 12.5 mg/L (Rat) 4 h > 26700 ppm (Rat) 1 h
Draize Test: no data available
Other: no data available

Component: DIMETHYL ETHER
Oral LD50: No information available
Dermal LD50: Not applicable
Inhalation LC50: = 308.5 mg/L (Rat) 4 h
Draize Test: no data available
Other: no data available

Component: Mineral spirits
Oral LD50: > 5000 mg/kg (Rat)
Dermal LD50: > 2000 mg/kg (Rabbit)
Inhalation LC50: > 5.2 mg/L (Rat) 4 h

Draize Test: no data available
Other: no data available

12. Ecological information

Ecological information
Product Information: No data available

Component Information
Component: Zinc
Toxicity to Algae:
EC50 0.11 - 0.271 mg/L Pseudokirchneriella subcapitata 96 h
EC50 0.09 - 0.125 mg/L Pseudokirchneriella subcapitata 72 h
Toxicity to Fish:
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
Microtox:
no data available
Crustacea:
0.139 - 0.908: 48 h Daphnia magna mg/L EC50 Static
log Pow:
N/A

Component: Toluene
Toxicity to Algae:
EC50 > 433 mg/L Pseudokirchneriella subcapitata 96 h
EC50 = 12.5 mg/L Pseudokirchneriella subcapitata 72 h
Toxicity to Fish:
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
Microtox:
EC50 = 19.7 mg/L 30 min
Crustacea:
5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static
11.5: 48 h Daphnia magna mg/L EC50
log Pow:
2.65

Component: DIMETHYL ETHER
Toxicity to Algae:
Not applicable
Toxicity to Fish:
Oral
Microtox:
no data available

Crustacea:
Not applicable
log Pow:
-0.18

Component: Mineral spirits
Toxicity to Algae:
Not applicable
Toxicity to Fish:
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
Microtox:
no data available
Crustacea:
Not applicable
log Pow:
N/A

Ecotoxicity
No information available

Persistence and degradability
No information available

Mobility
No information available

Bioaccumulative Potential
No information available

13. Disposal considerations

Product Disposal
Dispose of contents/container in accordance with local regulation.

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

U.N. Number
1950

UN proper shipping name
AEROSOLS

Transport hazard class(es)
2.1

Hazchem Code
2YE

IERG Number
49

UN Number (Air Transport, ICAO)
1950

IATA/ICAO Proper Shipping Name
Aerosols, flammable

IATA/ICAO Hazard Class
2.1

IMDG UN No
1950

IMDG Proper Shipping Name
AEROSOLS

IMDG Hazard Class
2.1

Other 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

Poisons Schedule
S6

Australia (AICS)
Toluene: Listed

16. Other Information

References
No information available.

User Codes

User Title Label	User Codes
Wis Numbers	00483837

Signature of Preparer/Data Service
Arvind Rane

Revisions Highlighted
GHS-SDS FORMAT

Other Information
Super cedes Date: DEC 2016

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END OF SDS