ZINC CYANIDE EXTRA PURE MSDS

CAS No: 557-21-1 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Trade name : Zinc Cyabnide
CAS No : 557-21-1
Product code : 6548D

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial. For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,
Ludhiana Pb. (141007)
+91 9316777775, +91 7707855700
sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H300 Category 1

Acute toxicity (dermal), H310

Category 1 Acute toxicity (inhal.), H330 Category 2

Hazardous to the aquatic H410

environment — Chronic Hazard, Category 1

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

T+; R26/27/28 N; R50/53 R32

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS06

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P264 - Wash ... thoroughly after handling P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - [In case of inadequate ventilation] wear respiratory protection

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

EUH phrases : EUH032 - Contact with acids liberates very toxic gas

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : ZINC CYANIDE Extra Pure

CAS No : 557-21-1

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor/physician.

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First-aid measures after skin contact : Gently wash with plenty of soap and water. Remove/Take off immediately all

contaminated clothing. Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Fatal if inhaled.

Symptoms/injuries after skin contact : Fatal in contact with skin. Symptoms/injuries after ingestion : Fatal if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area. Stop release.

6.2. Environmental precautions

Very toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Minimize generation of dust. On land, sweep or shovel into suitable containers. Store

away from other materials.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Avoid contact with skin and eyes. Do not

breathe vapours. Provide good ventilation in process area to prevent formation of

vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work. Do not eat, drink or smoke when using

this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : White powder.

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 800 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.85 g/cm³

Solubility : Water: Insoluble in water

Log Pow : No data available

Viscosity, kinematic : No data available

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: No data available Viscosity, dynamic

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Highly reactive material. Contact with acids liberates very toxic gas.

Conditions to avoid

Direct sunlight. Moisture.

Incompatible materials 10.5.

Oxidizing agent.

Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Fatal if swallowed. Dermal: Fatal in contact with skin. Inhalation: Fatal if

inhaled.

: Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified

: Not classified Aspiration hazard

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Potential adverse human health effects and symptoms

: Fatal if swallowed. Fatal in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Zinc Cyabnide (557-21-1)	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

recommendations

Ecology - waste materials

 $: \ \, {\sf Dispose} \,\, {\sf of} \,\, {\sf contents/container} \,\, {\sf to} \,\, ...$

: Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1713 UN-No. (IMDG) : 1713 UN-No.(IATA) : 1713 UN-No.(ADN) : 1713 UN-No. (RID) : 1713

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ZINC CYANIDE
Proper Shipping Name (IMDG) : ZINC CYANIDE
Proper Shipping Name (IATA) : ZINC CYANIDE
Proper Shipping Name (ADN) : ZINC CYANIDE
Proper Shipping Name (RID) : ZINC CYANIDE

Transport document description (ADR) : UN 1713 ZINC CYANIDE, 6.1, I, (C/E), ENVIRONMENTALLY HAZARDOUS

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Transport document description (IMDG) : UN 1713 ZINC CYANIDE, 6.1, I, MARINE POLLUTANT/ENVIRONMENTALLY

HAZARDOUS

Transport document description (IATA) : UN 1713 ZINC CYANIDE, 6.1, I, ENVIRONMENTALLY HAZARDOUS Transport document description (ADN) : UN 1713 ZINC CYANIDE, 6.1, I, ENVIRONMENTALLY HAZARDOUS : UN 1713 ZINC CYANIDE, 6.1, I, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1 Danger labels (ADR) : 6.1



IMDG

Transport hazard class(es) (IMDG) : 6.1 Danger labels (IMDG) : 6.1



IATA

Transport hazard class(es) (IATA) : 6.1 Hazard labels (IATA) : 6.1



ADN

Transport hazard class(es) (ADN) : 6.1 Danger labels (ADN) : 6.1



RID

Transport hazard class(es) (RID) : 6.1
Danger labels (RID) : 6.1



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14.4. **Packing group**

: 1 Packing group (ADR) : 1 Packing group (IMDG) Packing group (IATA) : 1 Packing group (ADN) : 1 Packing group (RID) : 1

Environmental hazards

: Yes Dangerous for the environment Marine pollutant : Yes

Other information : No supplementary information available

: TP33

Special precautions for user

- Overland transport

Classification code (ADR) : T5 : 0 Limited quantities (ADR) Excepted quantities (ADR) : E5

: P002, IBC07 Packing instructions (ADR) Mixed packing provisions (ADR) : MP18 Portable tank and bulk container : T6

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : S10AH Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT Transport category (ADR) Special provisions for carriage - Packages : V10

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV1, CV13, CV28

Special provisions for carriage - Operation : S9, S14

(ADR)

Hazard identification number (Kemler No.)

Orange plates

66 1713

Tunnel restriction code (ADR) : C/E EAC code : 2X

- Transport by sea

: 0 Limited quantities (IMDG) Excepted quantities (IMDG) : E5 Packing instructions (IMDG) : P002 IBC packing instructions (IMDG) : IBC07 IBC special provisions (IMDG) : B1 Tank instructions (IMDG) : T6 Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-A : S-A EmS-No. (Spillage) Stowage category (IMDG) : A Segregation (IMDG) : SG35 MFAG-No : 151

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- Air transport

PCA Excepted quantities (IATA) : E5

PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity : Forbidden

(IATA)

PCA packing instructions (IATA) : 666
PCA max net quantity (IATA) : 5kg
CAO packing instructions (IATA) : 673
CAO max net quantity (IATA) : 50kg
ERG code (IATA) : 6L

- Inland waterway transport

Classification code (ADN) : T5

Special provisions (ADN) : 802

Limited quantities (ADN) : 0

Excepted quantities (ADN) : E5

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : T5
Limited quantities (RID) : 0
Excepted quantities (RID) : E5

Packing instructions (RID) : P002, IBC07
Mixed packing provisions (RID) : MP18
Portable tank and bulk container : T6

instructions (RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : S10AH
Special provisions for RID tanks (RID) : TU15
Transport category (RID) : 1
Special provisions for carriage – Packages : W10

(RID)

Special provisions for carriage - Loading

and unloading (RID)

Hazard identification number (RID) : 66

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: TP33

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

: CW13, CW28, CW31

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Zinc Cyabnide is not on the REACH Candidate List Zinc Cyabnide is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according

to VwVwS, Annex 2; WGK No 428)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute toxicity (dermal), Category 1
Acute toxicity (oral), Category 1
Acute toxicity (inhal.), Category 2
Hazardous to the aquatic environment — Chronic Hazard, Category 1
Fatal if swallowed
Fatal in contact with skin
Fatal if inhaled
Very toxic to aquatic life with long lasting effects
Contact with acids liberates very toxic gas
Very toxic by inhalation, in contact with skin and if swallowed
Contact with acids liberates very toxic gas
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Dangerous for the environment
Very toxic

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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