

MATERIAL SAFETY DATA SHEET ZDEC (EZ) ZINC DIETHYL DITHIOCARBAMATE

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Identification on the label/Trade name : ACCELERATOR ZDEC

Additional identification : Zinc diethyldithiocarbamate Identification of the product : CAS#14324-55-1; EC#238-270-9

Index Number: 006-082-00-4REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Used as Accelerator.

1.2.2 Uses advised against:

Not available.

2. Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008

Hazard classes/Hazard categories	Hazard statement
Acute Tox. 4	H302
Eye Irrit. 2	H319
STOT SE 3	H335
Skin Irrit. 2	H315
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

For full text of H- phrases: see section 2.2.



67/548/EEC			
Hazards characteristics	R-Phrases		
Xn	R22		
Xi	R36/37/38		
Xn	R43		
N	R50/53		

For full text of R- phrases: see section 16.

2.1.2 The most important adverse effects

2.1.2.1 The most important adverse physicochemical effects:

Not applicable.

2.1.2.2 The most important adverse human health effects:

Harmful if swallowed, Causes serious eye irritation, May cause respiratory irritation, Causes skin irritation, May cause an allergic skin reaction.

2.1.2.3 The most important adverse environmental effects:

Very toxic to aquatic life with long lasting effects.

2.2 label elements

Hazard Pictograms:



Signal Word(S): Warning

Hazard Statement: H302 Harmful if swallowed.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary Statement: P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this

product.

P261 Avoid breathing

dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be

allowed out of the workplace.

P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.



P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention.

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P333 +P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place.

P405 Store locked up.

P501 Dispose of contents/container to local regulations.

2.3 Other hazards

Not available (PBT,vPvB, Substance is an endocrine disruptor etc.)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Zinc diethyldithiocarbamate	N/A	14324-55-1	238-270-9	>98%



4. FIRST AID MEASURES

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

4.1.2 In case of skin contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

4.1.3 In case of eyes contact:

Remove contact lenses. Hold eyelids apart. Flush immediately with water for at least 15 minutes. Seek medical attention.

4.1.4 In case of ingestion:

Rinse mouth. Give water to drink. Induce vomiting. Never induce vomiting in unconscious or confused persons. Always seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms can include redness, swelling, pain and tearing.

Inhalation of dust may cause respiratory tract irritation. May cause allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed If skin irritation or rash occurs, get medical advice/attention.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: CCarbon dioxide, appropriate foam or dry chemical, water pray, water mist.

Unsuitable extinguishing media: Water jet.

5.2 Special hazards arising from the substance or mixture

Emits toxic fumes under fire conditions: Carbon monoxide (CO), Sulfur oxides (SOx), nitrous gases (NOx).

5.3 Advice for fire-fighters:

Firefighters must wear fire resistant protective equipment. Wear self contained breathing apparatus and protective gloves.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapor or dust. Avoid skin and eye contact. Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

6.2 Environmental Precautions:

Avoid disposing into drainage/sewer system or directly into the aquatic environment. Keeping away from drains, surface-and ground-water and soil.



6.3 Methods for Containment and Cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Clean up affected area.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information:

Wet clean or vacuum up solids.

Don't use a brush or compressed air for cleaning surfaces or clothing. Clear spills immediately.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Do not breathe dusts/vapor. Handle in well ventilated areas. Eliminate all sources of ignition, and do not generate flames or sparks. Take precautionary measures against static discharges.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels. Keep in original packaging, tightly closed. Advice on storage assembly. Do not store together with foodstuffs. Do not store together with: Acids and Bases. Further information on storage conditions: Keep container tightly closed and dry in a cool, well-ventilated place.

7.3 Specific end use(s):

Not applicable.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Occupational exposure limits: WEL-TWA: 4 mg/m³ (respirable dust)

OES-TWA: 10.0 mg/m³ (inhalable dust) OES-TWA: 4.0 mg/m³ (respirable dust)

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 EXPOSURE CONTROLS

8.2.1Appropriate engineering controls:

Avoid dust generation. Ensure good ventilation and local exhaustion of the working area

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection Wear appreciate goggles to prevent eye exposure. Hand protection Wear appreciate gloves to prevent skin exposure. Body protection Wear suitable protective clothing to prevent skin

exposure.



Respiratory protection Avoid breathing dust. In case of insufficient

ventilation, wear suitable respiratory equipment.

Thermal hazards Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:

Avoid discharge into the environment. This material and its container must be

disposed of as hazardous waste.

According to local regulations, Federal and official regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Dedusted powder; powder, wettable; granules

Colour:White, creamOdour:OdourlessOdour threshold:Not available

pH: 7.8 (10 g/l, Aqueous dispersion).

Melting point/range (°C): Min. 172 °c **Boiling point/range (°C):** Not determined

Flash point (°C): 220 °C (Cleveland, open cup)

Evaporation rate:

Flammability (solid, gas);

Not applicable

Not flammable

Ignition temperature (°C): 440 °c

Upper/lower flammability/explosive Not determined

limits:

Vapour pressure (20°C):Negligible at room temperatures

Vapour density: Not applicable Relative Density (25°C): 1480 kg/m³ Bulk density (kg/m3): 330-370 kg/m3 Water solubility (g/l): Practically insoluble n-Octanol/Water (log Po/w): Not determined **Auto-ignition temperature:** Not available **Decomposition temperature:** Not available Viscosity, dynamic (mPas): Not determined **Explosive properties:** Lower: 20 g/m³ Oxidising properties: Not applicable

9.2. Other information:

Fat solubility(solvent- oil to be specified) etc: Soluble in Acetone Ethanol Acids

Chloroform Benzene Toluene

Surface tension:Not availableDissociation constant in water(pKa):Not availableOxidation-reduction Potential:Not available



10. STABILITY AND REACTIVITY

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:

Under normal conditions, the product is stable. No hazardous reaction when handled and stored according to provisions. Hazardous reactions are not known.

10.3 Possibility of hazardous reactions:

Under normal conditions, not hazardous reactions will occur.

10.4 Conditions to avoid:

No specific recommendations.

10.5 Incompatible materials:

Avoid contact with Strong oxidizing agents, strong acid.

10.6 Hazardous decomposition products:

During the vulcanization process, traces of carcinogenic N-nitrosamines may be formed from decomposition products (amines) in the presence of nitrosating agents.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution Non-human toxikological data: Not available

Method: Not available Dosis: Not available

Routes of administration: Not available

Results: Not available
Absorption: Not available
Distribution: Not available
Metabolism: Not available
Excretion: Not available

11.2 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat): 2590 - 3530 mg/kg LD50(Dermal Rabbit): > 3160 mg/kg LD50(Inhalation, Rat): Not available **Skin corrosion/Irritation:** Irritating to skin. **Serious eye damage/irritation:** Irritating to eyes.

Respiratory or skin sensitization: May cause sensitization by skin contact.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified reproductive toxicity: Not classified STOT- single exposure: Not classified STOT-repeated exposure: Not classified Aspiration hazard: Not classified



12. ECOLOGICAL INFORMATION

Toxicity:

Acute to	xicity	Time	Species	Method	Evaluation	Evaluation
LC50	0.40 mg/l	96h	Fish	OECD 203	N/A	N/A
LC50	0.24-0.44mg/l	48h	Daphnia	OECD 202	N/A	N/A
EC50	1.1 mg/l	96h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not readily biodegradable.

Bioaccumulative potential: Not applicable.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: Not applicable.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste. According to local regulations, Federal and official regulations.

13.2 Product / Packaging disposal:

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	UN3077	UN3077	UN3077
UN Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (1,3- diphenylguanidine)	Environmentally hazardous substance, solid, n.o.s. (1,3- diphenylguanidine)	Environmentally hazardous substance, solid, n.o.s. (1,3- diphenylguanidine)
Transport hazard Class:	9	9	9
Packaging group:	III	III	III
Environmental hazards:	Environmentally hazardoussubstances	Environmentally hazardoussubstances	Environmentally hazardoussubstances
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	IBC 08	IBC 08	IBC 08



15. REGULATION INFORMATION

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

Relevant information regarding authorization: Not applicable. **Relevant information regarding restriction:** Not applicable.

Other EU regulations: Employment restrictions concerning young person must be

observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

16 OTHER INFORMATION

16.2 Relevant R- phrases (number and full text):

R62 Risk of impaired fertility.

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R51-53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.3 Training instructions:

Not applicable.

16.4 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.