



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Zinc Benzenesulfinate Dihydrate
CAS-No. : 24308-84-7
Synonym: ZBS; Benzenesulfinic Acid Zinc Salt Dihydrate;
Benzenesulfinic Acid Zinc Salt; Zinc Benzenesulfinate; BM;
Blowing Agent Activator ZBS
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : $C_{12}H_{10}O_4S_2Zn$

CAS-No.	EC-No.	Index-No.	Concentration
Zinc Benzenesulfinate Dihydrate 24308-84-7	246-148-1		>98%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye:

Causes eye irritation. May cause chemical conjunctivitis.

Skin:

Causes skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation:

Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Can produce delayed pulmonary edema.

Chronic:

Effects may be delayed.

4. FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

6. ACCIDENTAL RELEASE MEASURES**General Information:**

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE**Handling:**

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Wash clothing before reuse. Avoid breathing dust.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 24308-84-7:

Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder.
Color:	Beige.
Odor:	Not available.
PH:	Not available.
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	217-221°C.
Autoignition Temperature:	Not available.
Flash Point:	Not available.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	Not available
Specific Gravity/Density:	Not available
Molecular Formula:	Zn.C ₆ H ₅ O ₂ S.C ₆ H ₅ O ₂ S
Molecular Weight:	345.93

10. STABILITY AND REACTIVITY**Chemical Stability:**

Stable under normal temperatures and pressures.

Conditions to Avoid:

Dust generation.

Incompatibilities with Other Materials:

Acids, bases, reducing agents, strong oxidizing agents.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, hydrogen bromide.

Hazardous Polymerization:

Has not been reported.

11. TOXICOLOGICAL INFORMATION**RTECS#:**

CAS#: 24308-84-7 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

Zinc Benzenesulfinate Dihydrate

Not listed by ACGIH, IARC, or NTP.

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION

IATA

Shipping Name: Not available.
Hazard Class: Not available.
UN Number: Not available.
Packing Group: Not available.

IMO

Shipping Name: Not available.
Hazard Class: Not available.
UN Number: Not available.
Packing Group: Not available.

RID/ADR

Shipping Name: Not available.
Hazard Class: Not available.
UN Number: Not available.
Packing group: Not available.

15. REGULATORY INFORMATION

European/International Regulations European Labeling in Accordance with EC Directives Hazard

Symbols: Xi Risk

Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 24308-84-7: No information available.

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 24308-84-7 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL TSCA CAS# 24308-84-7 is not listed on the TSCA inventory. It is for research and development use only.

16. OTHER INFORMATION

Further information

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