



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. HH 220
Effective Date March 8, 1999

SECTION V HEALTH HAZARD DATA

HH 220

Threshold Limited Value

None established for this product. SiO₂ as Respirable Quartz: 0.1 mg/m³; Bitumen, Asphalt; 5 mg/m³; Sulfur 5 mg/m³ as dust.

Effects of Overexposure

Contact with contents of vial on repeated long term contact with skin may cause mild dermatitis, allergic reaction, and skin discoloration. **NOTE:** The intended use of this product is to produce hydrogen sulfide (H₂S) upon heating. Hydrogen sulfide is a toxic gas. This gas deadens the sense of smell. Do not depend on odor to detect presence of gas.

Emergency and First Aid Procedures

EYES: Flush immediately with cold water for 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **SKIN CONTACT:** If molten, cool with water immediately. Do not use solvent to remove. Follow standard first aid procedures for burns. Get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician immediately. **INGESTION:** If swallowed, do **NOT** induce vomiting, call physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	

Excessive temperature and heat.

Incompatibility (Materials to Avoid)	Strong oxidizing materials such as chromic acid, hydrogen peroxide and bromine.
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Hazardous Decomposition Products	On burning, carbon monoxide, carbon dioxide, oxides of sulfur and nitrogen and hydrogen sulfide.
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Hazardous Polymerization	Conditions to Avoid	
	May Occur	Will Not Occur
	X	

Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	<p><u>Granular</u> - Sweep up and place in a suitable container for disposal.</p> <p><u>Molten Material</u> - Let cool, scrape up with spud bar or other suitable tool, and place in a suitable container for disposal.</p>
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
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Dispose of in an approved incinerator or in a sanitary landfill. Check local codes.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal handling when not in use. In use, when heated to produce hydrogen sulfide use only with adequate ventilation, work in a fume hood or wear a NIOSH/MSHA-approved self-contained respirator.
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Ventilation	Local Exhaust	Yes (on heating).	Special	No.
	Mechanical (General)	Yes (on heating).	Other	No.

Protective Gloves	Optional *	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, proper gloves, eye wash station, ventilation, respirator.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	* In hot situations, wear heavy gloves, long sleeves, to prevent burns. Keep container tightly closed when not in use. Do not generate hydrogen sulfide gas in a confined area. Use only with adequate ventilation.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Use in keeping with good laboratory practices. Hydrogen sulfide when produced from this product is a flammable gas. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 5	Date	3/8/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	AITCH-TU-ESS
Chemical Synonyms	Hydrogen Sulfide Generator, H ₂ S
Formula	Mixture - See Section II.
Unit Size	1 vial.
C.A.S. No.	None assigned.

 CHEMTREC 800-424-9300 Day 716-226-6177	Health	0
	Fire	1
 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	Reactivity	0
	HMIS *	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sand: (CAS No. 14808-60-7)	31%	See Section V.
Granular Asphalt (Pioneer 442): (CAS No. 8052-42-4)	21%	See Section V.
Sulfur: (CAS No. 7704-34-9)	46.5%	See Section V.
Blue Dye (C.I. No. 77007): (CAS No. 57455-37-5)	1.5%	See Section V.

WARNING! GENERATES HYDROGEN SULFIDE ON HEATING. USE WITH ADEQUATE VENTILATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	N/A (Mixture)	Specific Gravity (H ₂ O = 1)	N/A (Mixture)
Boiling Point (°F)	N/A (Mixture)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A (Mixture)	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A (Mixture)		
Solubility in Water	N/A (Mixture)		
Appearance & Odor	Vial containing blue colored, fused mass; mild-petroleum like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	187-315°C (370-600°F) Combustible.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media	Carbon dioxide (CO ₂); dry chemical (ABC); foam, water spray.
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SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of oxides of Sulfur (SO_x) and Hydrogen Sulfide (H₂S), a toxic and flammable gas.

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20