



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. SS 250
Effective Date April 29, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	SODIUM AZIDE
Chemical Synonyms	Sodium Trinitride
Formula	NaN ₃
Unit Size	up to 1 Kg.
C.A.S. No.	26628-22-8

CHEMTREC
800-424-9300
Day 716-226-6177

Health	3
Fire	2
Reactivity	2

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS *

0	1	2	3	4
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SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Azide	100%	See Section V.
DANGER! POISON!		
MAY BE FATAL IF SWALLOWED OR INHALED. HAZARDOUS DUST.		
KEEP FROM HEAT OR SHOCK.		

SECTION III PHYSICAL DATA

Melting Point (°F)	300°C (572°F) decomposes.	Specific Gravity (H ₂ O = 1)	1.846 g/cm ³
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	42% (Slowly hydrolyzes liberating highly toxic hydrazoic acid.)		
Appearance & Odor	White, colorless crystalline or powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	NA (Combustible)	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher Media	Dry chemical, sand, Anhydrous sodium carbonate.			

SPECIAL FIREFIGHTING PROCEDURES

Do not use water. Move exposed containers from fire area if without risk. Keep up-wind. No unnecessary personnel. Identify and isolate hazard area. Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Contact with acid produces poisonous gas.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 153)

UNUSUAL FIRE AND EXPLOSION HAZARDS

May catch fire and burn violently. Sensitivity to explosion increases greatly with certain metallic contaminations. Products of combustion may lead to explosion. May undergo explosive decomposition at elevated temperatures, particularly on rapid heating.

D.O.T. SODIUM AZIDE, 6.1, UN 1687, PG II

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

SECTION V HEALTH HAZARD DATA

SS 250

Threshold Limited Value

TWA: Ceiling limits - 0.1 ppm; 0.3 mg/m³ (AIR) (ACGIH 1992-93).

Effects of Overexposure

INHALATION: High dust exposure may produce severe headache, dizziness, blurred vision, lowered blood pressure, slow pulse and respiratory paralysis. **EYES:** Contact causes irritation, corneal burns and possible injury to retina and optic nerve. **SKIN:** Prolonged contact with moist skin causes irritation, and dermatitis. **INGESTION:** May cause breathlessness, nausea, vomiting, headache and restlessness, loss of consciousness.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. **NEVER** by mouth to mouth method. Remove contaminated clothing. **EYES:** Immediately flush eyes with plenty of water for 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Flush with plenty of water. **INGESTION:** If victim is conscious, remove ingested poison immediately by gastric lavage or emesis using activated charcoal. Give oxygen if respiration is shallow or if anoxia is present. Get medical attention immediately. (Dreisbach, Handbook of Poisoning, 11th ed.) Gastric lavage should be performed by qualified medical personnel.

SECTION VI REACTIVITY DATA

Stability	Unstable	X	Conditions to Avoid	High temperatures, strong impact. May explode from friction, heat or contamination.
	Stable			
Incompatibility (Materials to Avoid)	Strong oxidizers, acids (liberates highly toxic hydrazoic acid), heavy metals (lead, copper, silver, mercury, etc.), water, carbon disulfide, bromine, nitric acid, (benzoyl chloride + potassium hydroxide) to form explosive compounds.			
Hazardous Decomposition Products	Thermal decomposition or burning may produce oxides of nitrogen and sodium.			
Hazardous Polymerization	Conditions to Avoid			
May Occur	Will Not Occur			Not applicable.
	X			

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Wearing suitable protective clothing, thoroughly sweep up material and place in fiber carton for disposal. Do not flush to sewer. Do not use sink for disposal. Dispose of by professionals.

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.

Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.			
Ventilation	Local Exhaust	Acceptable.	Special	No.
	Mechanical (General)	Preferred.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Goggles, smock, apron, proper gloves, eye wash station, fire extinguisher.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry place away from acids or metal containers; store away from fire and fire hazards. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid breathing dust. Avoid prolonged or repeated contact with skin. 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	4/29/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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