

Material Safe Data Sheet

Date Created 06/10/2006
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Version 1.1

Section 1- Product Information

Product Name Sodium Azide

Section 2- Composition / Information on Ingredients

Substance / Preparation: Substance
Ingredient Name Sodium Azide
CAS No. 26628-22-8
EC Number RC0520
EU Symbol T+,N
R-Phrases R28,R32

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information

Section 3- Hazards Identification

Primary hazards and critical effects **Danger!**
May be fatal if absorbed through skin or if swallowed.
May cause damage to the following organs: liver, brain, digestive system, central nervous system, head.
May be harmful to environment if released in large amounts.
Do not get in eyes, on skin or on clothing. Do not ingest. Wash thoroughly after handling.
Avoid contact of spilled material and runoff with soil and surface waterways.

Physical/chemical hazards Not applicable.

Human health hazards Very toxic if swallowed.
Contact with acids liberates very toxic gas.

Environmental hazards Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Section 4- First Aid Measures

Inhalation If swallowed, do not induce vomiting unless directed to do so by medical personnel.

Ingestion Never give anything by mouth to an unconscious person.
Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water.
Remove contaminated clothing and shoes. Wash clothing before reuse.
Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Get medical attention.

Notes to Medical Doctor Not available.

Section 5- Fire Fighting Measures

Extinguishing Media	Use foam or all purpose dry chemicals to extinguish. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Fire-Fighting Procedures	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Fire/Explosion Hazards	Not available
Hazardous Decomposition Products	These products are nitrogen oxides (NO, NO ₂ ...). Some metallic oxides.

Section 6- Accidental Release Measures

Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
Environmental Precautions and Clean-up Methods	If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Section 7- Handling and Storage

Handling	Do not get in eyes, on skin or on clothing. Do not ingest. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface water ways.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Packaging materials	Use original container.

Section 8- Exposure Controls/Personal Protection Equipment

Occupational Exposure Limits	Not available
Engineering controls	Open handling is not permitted. All handling must be performed in a glove box or other totally enclosed system.
Personal protective equipment	
Respiratory	Use an approved, properly fitted, HEPA filter cartridge respirator, or a respirator of greater protection if there is the potential to exceed the exposure limit(s).
Skin and body	Disposable outer garments, or impervious garments of equal or greater protection.
Hands	Use chemical resistant, impervious gloves. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
Eyes	Appropriate techniques should be used to remove potentially contaminated clothing. Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to dust.
Protective Clothing (Pictograms)	



Section 9- Physical and Chemical Properties

Flash point	Not available
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Section 10- Stability and Reactivity

Stability	The product is stable.
Conditions and Materials to avoid	Reactive with metals, acids.
Hazardous Decomposition Products	Not available

Section 11- Toxicological Information
Toxicity Data

Test	Result	Route	Species
LD50	27 mg/kg	Oral	Rat
LD50	27 mg/kg	Oral	Mouse
LD50	23.7 mg/kg	Oral	Birds
LD50	20 mg/kg	Dermal	Rabbits
LDLo	129 mg/kg	Oral	Human
LDLo	143 mg/kg	Oral	Human
LDLo	29 mg/kg	Oral	Human

Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation.
Acute toxicity	
Ingestion	Very toxic if swallowed.
Skin Contact	Very toxic in contact with skin.
Chronic toxicity	
Adverse Effects	Adverse symptoms may include: nausea/vomiting headache blood pressure lowered nerve damage central nervous system depression liver abnormalities cerebral (brain) pathology.
Target Organs	May cause damage to the following organs: liver, brain, digestive system, central nervous system (CNS), head.
Carcinogenic Effects	Not available
Mutagenic Effects	Not available
Developmental and Teratogenic Effects	Not available
Reproductive Effects	Not available
Other Information	Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 12- Ecological Information
Ecotoxicity Data

Species	Not available
Period	Not available
Result	Not available

Section 13- Disposal Considerations

Waste Handling and Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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Section 14- Transport Information

Air	
Proper shipping name	Not applicable
UN/ID Number	Not applicable
IATA-DGR Class	Not controlled under IATA.
Packing Group	Not applicable

Section 15- Regulatory Information

EU Regulations

Hazard Symbol(s)	C; N; T
Risk Phrases	R28- Very toxic if swallowed. R32- Contact with acids liberates very toxic gas. R36/37/38- Irritating to eyes, respiratory system and skin. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28.1- After contact with skin, wash immediately with plenty of water. S36- Wear suitable protective clothing. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S60- This material and its container must be disposed of as hazardous waste. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

U.S. Federal Regulations

Haz-Com Standard	CLASS: Highly toxic. CLASS: Target organ effects.
EPA	TSCA 8(b) inventory: Sodium Azide TSCA 8(d) H and S data reporting: Sodium Azide SARA 313 toxic chemical notification and release reporting: Sodium Azide 50%
State	Not available.

Canadian Regulations

WHMIS	CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
CEPA	No products were found.
Provincial	No products were found.

Section 16- Other Information

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.