

Material Safety Data Sheet

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Date updated	06/10/2010

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

Note: See section 1 for emergency contact information and section 13 for waste disposal.

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 waterways.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Packaging materials	Use original container.

Section 8-Exposure controls/personal protection

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 System	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. Appropriate techniques should be used to remove potentially contaminated clothing.
Eyes	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. Ingestion.
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.