



Safety Data Sheet
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Sodium Azide, ACS
NCL Catalog Number S-31
Product Description Laboratory chemical
Manufacturer EMD Chemicals Inc. PO Box 70, 480 Democrat Road
Gibbstown, NJ 08027
Supplier NCL of Wisconsin, Inc. PO Box 8, Birnamwood, WI 54414
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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Acute Toxicity Oral Category 2
Acute Toxicity Dermal Category 1
Aquatic Acute Category 1
Aquatic Chronic Category 1



Signal Word Danger

Hazard Statements

H300+H310 Fatal if swallowed or in contact with skin.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P262 Do not get in eyes, on skin, or on clothing.
P264 Wash exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P310 Immediately call a POISON CENTER or doctor.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container to comply with local, state and federal regulations.

Other Hazards Not Contributing to the Classification

Contact with acids liberates very toxic gas. Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides. Rapidly absorbed through skin.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Formula N₃Na
Molecular Weight 65.01 g/mol

Substance

Name	CAS #	Approximate %
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Sodium Azide	26628-22-8	100
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SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures	Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
If Inhaled	Remove person to fresh air and keep at rest in a position comfortable for breathing. If experience respiratory symptoms: Call a POISON CENTER or doctor.
In Case of Skin Contact	Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower. Take victim immediately to hospital.
In Case of Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if irritation persists.
If Swallowed	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms/Effects Acute and Delayed

No additional information.

Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical advice if you feel unwell.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Adapt extinguishing media to the environment.

Unsuitable Extinguishing Media Do not use a heavy water stream.

Special Hazards Arising from the Chemical No data available.

Special Protective Actions for Fire-Fighters Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray. Dilute toxic gases with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment (see section 8). Safety glasses, gloves, gas/dust mask. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation and evacuate personnel to safe areas.

Environmental Precautions Prevent entry to surface and ground waters.

Methods and Materials for Containment and Cleaning Up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Ensure compliance with local, state and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling Remove contaminated clothing immediately. Clean contaminated clothing. Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage Including any Incompatibilities Keep in original container, tightly closed and stored in a cool, dry, ventilated area. Never allow product to get in contact with water during storage. Do not store near acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Sodium Azide (26628-22-8)		
USA ACGIH	ACGIH TLV	0.11 ppm
OSHA NIOSH	OSHA	0.1 ppm

Appropriate Engineering Controls

Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

Individual Protection Measures

Eye/Face Protection

Avoid all unnecessary exposure.

Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

Skin Protection

Protective gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Respiratory Protection

Wear appropriate mask.

Other Information

Do not eat, drink or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid, crystalline
Color	White
Odor	Odorless
Odor Threshold	Not determined
pH	10 at 65 g/l at 25°C
Melting Point/Freezing Point	275°C
Initial Boiling Point and Boiling Range	Not determined
Flash Point	Not determined
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Not determined
Upper/Lower Flammability/Explosive Limits	Not determined
Vapor Pressure	0.01 hPa (0.01 mmHg) at 20°C
Vapor Density	Not determined
Relative Density	1.850 g/cm ³
Solubility	Soluble in water, 65 g/l at 20°C
Partition Coefficient: n-octanol/water	Not determined
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	An explosion occurred when a mixture of sodium azide, methylene chloride, dimethyl sulfoxide, and sulfuric acid were being concentrated on a rotary evaporator.
Incompatible Materials	Halogenated hydrocarbon, metals, acids, and acid chlorides
Hazardous Decomposition Products	No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	Fatal if swallowed or in contact with skin.
Sodium Azide (26628-22-8)	
LD50 oral rabbit	10 mg/kg
LC50 inhalation rat	37 mg/m ³
LD50 dermal rabbit	20 mg/kg
Skin Corrosion/Irritation	Not classified

Serious Eye Damage/Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified
Potential Adverse Human Health Effects and Symptoms	Toxic if swallowed.
Other Information	Nausea, headache, vomiting, laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecology – Water Toxicity Very toxic to aquatic life with long lasting effects.

Sodium Azide (26628-22-8)	
EC50 Daphnia	4.2 mg/l – 48 h, Daphnia pulex

Persistence and Degradability	Not established
Bioaccumulative Potential	Not established
Mobility in Soil	Toxic to flora.
Other Adverse Effects	Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

Disposal Recommendations	Dispose of contents/containers in accordance with local, state and federal regulations. Hazardous waste shall not be mixed together with other waste.
Other Information	Hazardous waste due to toxicity. Avoid release to the environment

SECTION 14: TRANSPORT INFORMATION

UN Number	1687
UN Shipping Name	Sodium Azide
Transport Hazard Class(es)	6.1
Packing Group	II
Environmental Hazards	Environmentally hazardous substances.
Transport in Bulk	Not applicable
Other Precautions	Not applicable

SECTION 15: REGULATORY INFORMATION

Sodium Azide (26628-22-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific Toxic Chemical Listings)	
Reportable Quantity	1000 lb

SECTION 16: OTHER INFORMATION

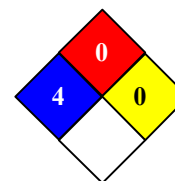
Revision Date: 04/09/2015

NFPA Hazards

Health Hazard 4: Very short exposure could cause death or major residual injury.

Fire Hazard 0: Materials that will not burn under typical fire conditions.

Reactivity/Instability 0: Normally unstable and readily undergo violent decomposition but do not detonate. Also may react violently with water or may form potentially explosive mixtures with water.



HMIS III Rating

Health 4: Life-threatening, major or permanent damage may result from single or repeated overexposures.

Flammability 0: Materials that will not burn.

Physical Hazard 0: Materials that are normally stable, even under fire conditions, and will not react with water.

Personal Protection F

S-31	
Health	4
Flammability	0
Physical Hazard	0
Personal Protection	F

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, NCL of Wisconsin, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for their conditions of use. Accordingly, NCL of Wisconsin, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

END OF SAFETY DATA SHEET