

### SODIUM AZIDE

# Haterial Safety Data Sheet

Emergency Telephone 314-982-5000 Musber

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Effective Date: 08-28-85

PRODUCT IDENTIFICATION:

Synonyms: Azide; Azium; Smite

Formula CAS No.: 26628-22-8

Not applicable.

Holecular Weight: 65.02

Chemical Formula: NaN3

PRECAUTIONARY HEASURES

DANGER! MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH SKIN. HARMFUL IF INNALED. HAZARDOUS SOLID. CONTACT WITH OTHER HATERIAL MAY CAUSE FIRE OR EXPLOSION. CAUSES IRRITATION

Use with adequate ventilation.

Wash thoroughly after handling.

Kaep away from hear, sparks and flame.

Avoid friction or rough handling because of fire and explosion hazard. Do not get in eyes, on skin, or on clothing. Keep container closed and away from acids.

HERGENCY/FIRST ALD

In all cases call a physician immediately.

If swallowed, induce vomiting immediately by giving two glasses of water and atticking finger down throat. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. In case of headache or faintness have patient lie flat and keep warm.

SEE SECTION 5.

DOT Hazard Class: Poison-B

ECTION 1

Physical Data

Appearance: Colorless crystals

Characteristic odor

Solubility: 42 8/100 g water @ 17°C (63°F)

Boiling Point: Not applicable

Helting Point: 300°C (572°F) decomposes

Specific Gravity: 1.85

Vapor Pressure (mm Hg):No information

Vapor Density (Air-1):No information

Evaporation Rate: No information found

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SECTION 2

Combustible solid. May pose a fire hazard upon heating, shock, concussion, or friction.

Explosion:

Decomposes explosively upon heating, shock, concussion, or friction. Reacts with both copper lead to produce explosive azides. Explosions in laboratory plumbing containing these metals is

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Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breat apparatus with full facepiece operated in the pressure demand or other positive pressure mode. breathlag

Reactivity Data

Stability:

Unstable, explosive. See Section 2

Hazardous Decomposition Products:

Oxides of nitrogen. Explodes upon decomposition.

Hazardous Polymerization:

This substance does not polymerize

Incompatibilities:

Benzoyl chloride plus potassium hydroxide, bromine, carbon disulfide, chromyl chloride, copper, dibromalononitrile, dimethyl sulfate, lead, barium carbonate, sulfuric acid, water, and nitric acid.

Leak/Spill Disposal Information

Ventilate area of leak or spill. Clean-up personnel may require protective clothing and respiratory protection from dust.

Spills: Pick up and place in a suitable container for reclamation or disposal in a method that does not generate dust.

Disposal: Whatever cannot be saved for reclamation may be disposed in an RCRA approved hazardous waste facility. Do not flush to the sewer. Can form explosive

Reportable Quantity (RQ)(CWA/CERCLA) : 1000 lbs

Ensure compliance with local, state and federal regulations.

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# Exposure/Health Effects

### Inhalaction:

### SECTION S

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May cause irritation to the respiratory tract and mucous membranes, sore throat, coughing, dizziness, shortness of breath, and fainting. May be absorbed through inhalation. Symptoms may parallel ingestion.

### Ingestion:

Highly Toxic! May cause breathleseness and rapid heart beat within 5 minutes. Nauses, vomiting, headache, restlessness, and diarrhes may occur within 15 minutes. Other symptoms may include low blood pressure, abnormal breathing, reduced body temperature, reduced body pH, convulsions, collapse and death.

### Skin Contact:

Highly Toxic? Causes irritation, redness, and pain. May be absorbed through the skin; symptoms may parallel ingestion.

Causes irritation, redness, pain, and blurred vision

## Chronic Exposure

Eye Contact:

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Aggravation of Pra-existing Conditions:

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FIRST AID Inhalation:

Remove to fresh air. If not breathing, give artificial respiration: If breathing is difficult, give oxygen. Call a physician.

### Ingestion:

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Haver give anything by mouth to an unconscious person. Call physician immediately.

### Skin Exposure:

Remove any contaminated clothing. Wipe off excess from skin. Wash skin with plenty of water for at least 15 minutes. Get medical attention promptly.

Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyalids occasionally. Get medical attention immediately.

### Eye Exposure:

TOXICITY DATA (RTECS, 1982)

Owal rat LD50: 27 mg/kg. Skin rabbit LD50: 20 mg/kg. Matation data references cited.

# Occupational Control Measures

# Airborne Exposure Limits:

### SECTION

-4-

# -ACGIN Threshold Limit VAlue (TLV): 0.1 ppm (TVA) ceiling limit:

## Ventilation System:

A system of local exhaust is recommended to keep employer exposure below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the dust or vapor at its source, preventing dispersion of it into the general work area. Please refer to the ACGIN document, "Industrial Ventilation, A Manual of Recommended Fractices", most recent edition, for details.

# Personal Respirators (NIOSH Approved)

If the TLV is exceeded, a dust/mist respirator with chemical goggles may be worn, in general, up to ten times the TLV. Consult respirator supplier for limitations. Alternatively, a supplied air full facepiece respirator or airlined hood may be worn.

### Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls to prevent skin contact.

### Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Contact lenses should not be worm when working with this material.

Haintain eye wash fountain and quick-drench facilities in work area.

# Storage and Special Information SECTION 7

Keep in a rightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect container from physical damage. Isolate from incompatible substances.

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