

Revision Date: 01-11-2017

SAFETY DATA SHEET

1. Identification

Product identifier: SODIUM AZIDE

Other means of identification

Product No.: 1953

Recommended use and restriction on use

Recommended use: Not available.

Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Manufacturer

Company Name: Avantor Performance Materials, LLC.

Address: 3477 Corporate Parkway

Center Valley, PA 18034

Telephone: Customer Service: 855-282-6867

Fax: 610-573-2610

Contact Person: Environmental Health & Safety E-mail: info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Oral) Category 2
Acute toxicity (Dermal) Category 1

Environmental Hazards

Acute hazards to the aquatic Category 1

environment

Chronic hazards to the aquatic Category 1

environment

Label Elements

Hazard Symbol:



Signal Word: Danger



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Hazard Statement: Fatal if swallowed.

Fatal in contact with skin.

Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when

using this product. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Avoid

release to the environment.

Response: IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Immediately call a POISON CENTER/doctor. Take off immediately all

contaminated clothing and wash it before reuse. Collect spillage.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
SODIUM AZIDE		26628-22-8	90 - 100%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Rinse mouth. Call a physician or poison control center immediately. Do not

induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air. Call a physician or poison control center immediately. If

breathing stops, provide artificial respiration.

Skin Contact: Wash the skin immediately with soap and water. Call a physician or poison

control center immediately. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms: Fatal if swallowed. Fatal in contact with skin.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed.



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5. Fire-fighting measures

General Fire Hazards: In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media:

Water.

Specific hazards arising from

the chemical:

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning

up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual

contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures: Dike for later disposal. Prevent entry into waterways, sewer, basements or

confined areas. Stop the flow of material, if this is without risk. Inform

authorities if large amounts are involved.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Avoid contact with skin. Wash hands thoroughly

after handling. Do not taste or swallow. Use only with adequate ventilation.

Conditions for safe storage,

including any incompatibilities:

Keep container tightly closed. Store locked up. Store in cool, dry place. Store in a well-ventilated place. Avoid heat, sparks, open flames and other

ignition sources. Store away from incompatible materials.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
SODIUM AZIDE - as NaN3	Ceiling	0.29 mg/m3	US. ACGIH Threshold Limit Values (2011)



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SODIUM AZIDE - as hydrazoic acid vapor	Ceiling	0.11 ppm		US. ACGIH Threshold Limit Values (2011)
SODIUM AZIDE - as HN3	Ceil_Time	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2010)
SODIUM AZIDE - as NaN3	Ceil_Time	0.3	3 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
SODIUM AZIDE - as HN3	Ceiling	0.1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
SODIUM AZIDE - as NaN3	Ceiling	0.3	3 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
SODIUM AZIDE - as HN3	Ceiling	0.1 ppm		US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)

Appropriate Engineering

No data available.

Controls

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

> Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If

exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the

immediate work area.

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Supplied-air

respirator with full facepiece, helmet or hood.

Hygiene measures: Avoid contact with skin. Avoid contact with eyes. Do not eat, drink or smoke

when using the product. Wash contaminated clothing before reuse.

Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Wash hands after handling.

9. Physical and chemical properties

Appearance

Physical state: solid

Form: Crystals or powder.

Color: Colorless Odor: Odorless

Odor threshold: No data available. pH: No data available. Melting point/freezing point: 275 °C Decomposes Initial boiling point and boiling range: No data available. Flash Point: No data available. **Evaporation rate:** No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. **Explosive limit - upper (%):** No data available. Explosive limit - lower (%): No data available.



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Vapor pressure:No data available.Vapor density:No data available.Relative density:1.85 (20 °C)

Solubility(ies)

Solubility in water: 420 g/l (17 °C)
Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

Other information

Molecular weight: 65.01 g/mol (N3Na)

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

Conditions to avoid: Heat, sparks, flames. Contact with incompatible materials.

Incompatible Materials: Halogenated hydrocarbons. Metals. Acids. Acid chlorides.

Hazardous Decomposition

Products:

No data available.

11. Toxicological information

Information on likely routes of exposure

Ingestion: Fatal if swallowed.

Inhalation: May be harmful if inhaled.

Skin Contact: Fatal in contact with skin.

Eye contact: May irritate eyes.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 27 mg/kg

Dermal

Product: LD 50 (Rabbit): 20 mg/kg

Inhalation

Product: LC 50 (Rat,): 37 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Fatal in contact with skin.



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Serious Eye Damage/Eye Irritation

Product: May irritate eyes.

Respiratory or Skin Sensitization

Product: Not a skin sensitizer.

Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No mutagenic components identified

In vivo

Product: No mutagenic components identified

Reproductive toxicity

Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product:
None known.

Tono known.

Specific Target Organ Toxicity - Repeated Exposure

Product: None known.

Aspiration Hazard

Product: Not classified

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 0.8

mg/l

LC 50 (Bluegill (Lepomis macrochirus), 96 h): 0.7 mg/l

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 5.46 mg/l

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.



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Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: There are no data on the degradability of this product.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in soil: No data available.

Other adverse effects: Very toxic to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local

laws. Do not allow to enter drains, sewers or watercourses.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.

14. Transport information

DOT

UN Number: UN 1687 UN Proper Shipping Name: Sodium azide

Transport Hazard Class(es)

Class(es): 6.1
Label(s): 6.1
Packing Group: II
Marine Pollutant: Yes
Special precautions for user: -

IMDG

UN Number: UN 1687

UN Proper Shipping Name: SODIUM AZIDE

Transport Hazard Class(es)

Class(es): 6.1 Label(s): 6.1 EmS No.: F-A, S-A

Packing Group: II
Marine Pollutant: Yes
Special precautions for user: –



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IATA

UN Number: UN 1687
Proper Shipping Name: Sodium azide

Transport Hazard Class(es):

Class(es): 6.1
Label(s): 6.1

Marine Pollutant: Yes
Packing Group: II
Special precautions for user: –

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Reportable quantity

SODIUM AZIDE 1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate)

Fire

SARA 302 Extremely Hazardous Substance

Reportable

Chemical Identity quantity Threshold Planning Quantity

SODIUM AZIDE 1000 lbs. 500 lbs.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u> <u>Reportable quantity</u>

SODIUM AZIDE 1000 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

SODIUM AZIDE 500lbs

SARA 313 (TRI Reporting)

Reporting Reporting threshold for

threshold for manufacturing and

Chemical Identityother usersprocessingSODIUM AZIDE10000 lbs25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

SODIUM AZIDE



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US. Massachusetts RTK - Substance List

Chemical Identity

SODIUM AZIDE

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

SODIUM AZIDE

US. Rhode Island RTK

Chemical Identity

SODIUM AZIDE

Inventory Status:

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory On or in compliance with the inventory Japan (ENCS) List: China Inv. Existing Chemical Substances: Not in compliance with the inventory. Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory Japan ISHL Listing: On or in compliance with the inventory Japan Pharmacopoeia Listing: Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 01-11-2017

Revision Date: No data available.

Version #: 1.1

Further Information: No data available.



Disclaimer:

Version: 1.1

Revision Date: 01-11-2017

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