SECTION 1: Identification

1.1 Product identifier
Name 10% Sodium Azide
Product number S0209

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet
Teknova
2290 Bert Dr.
Hollister California 95023
United States

Telephone: 831-637-1100
Telefax: 831-637-2355
e-mail: info@teknova.com
Website: www.teknova.com

1.4 Emergency telephone number
CHEM TREC Emergency Phone Number (800)-424-9300

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture
Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Section</th>
<th>Hazard class</th>
<th>Category</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.1O</td>
<td>acute toxicity (oral)</td>
<td>3</td>
<td>Acute Tox. 3</td>
<td>H301</td>
</tr>
<tr>
<td>A.1D</td>
<td>acute toxicity (dermal)</td>
<td>2</td>
<td>Acute Tox. 2</td>
<td>H310</td>
</tr>
<tr>
<td>A.1I</td>
<td>acute toxicity (inhal.)</td>
<td>3</td>
<td>Acute Tox. 3</td>
<td>H331</td>
</tr>
</tbody>
</table>

For full text of abbreviations: see SECTION 16.

2.2 Label elements
Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)
- Signal word danger
- Pictograms GHS06
- Hazard statements
  H301+H331 Toxic if swallowed or if inhaled.
  H310 Fatal in contact with skin.
**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P262 Do not get in eyes, on skin, or on clothing.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P352 Wash with plenty of water.
P362 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to industrial combustion plant.

**Hazardous ingredients for labelling**

* Sodium Azide

**2.3 Other hazards**

Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**
Not relevant (mixture)

**3.2 Mixtures**

Description of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Wt%</th>
<th>Classification acc. to GHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI Water</td>
<td>7732-18-5</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>10</td>
<td>Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330</td>
</tr>
</tbody>
</table>

For full text of abbreviations: see SECTION 16.

**SECTION 4: First-aid measures**

**4.1 Description of first-aid measures**

General notes
Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact
Wash with plenty of soap and water.
Following eye contact
  Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion
  Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 **Most important symptoms and effects, both acute and delayed**
  Symptoms and effects are not known to date.

4.3 **Indication of any immediate medical attention and special treatment needed**
  none

### SECTION 5: Fire-fighting measures

5.1 **Extinguishing media**
  Suitable extinguishing media
    - Water spray, BC-powder, Carbon dioxide (CO2)
  Unsuitable extinguishing media
    - Water jet

5.2 **Special hazards arising from the substance or mixture**
  Hazardous combustion products
    - Nitrogen oxides (NOx)

5.3 **Advice for firefighters**
  In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

6.1 **Personal precautions, protective equipment and emergency procedures**
  For non-emergency personnel
    - Remove persons to safety.
  For emergency responders
    - Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 **Environmental precautions**
  Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 **Methods and material for containment and cleaning up**
  Advices on how to contain a spill
    - Covering of drains
  Advices on how to clean up a spill
    - Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder
Appropriate containment techniques
Use of adsorbent materials.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Recommendations
- Measures to prevent fire as well as aerosol and dust generation
  Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities
Consideration of other advice
- Ventilation requirements
  Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.
- Packaging compatibilities
  Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)
See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of agent</th>
<th>CAS No</th>
<th>Identifier</th>
<th>TWA [ppm]</th>
<th>TWA [mg/m³]</th>
<th>STEL [ppm]</th>
<th>STEL [mg/m³]</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>PEL (CA)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cal/OSHA PEL</td>
</tr>
<tr>
<td>US</td>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>REL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>US</td>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>TLV®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ACGIH® 2018</td>
</tr>
<tr>
<td>US</td>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>REL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>US</td>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>TLV®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ACGIH® 2018</td>
</tr>
</tbody>
</table>

Notation
STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
Relevant DNELs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Protection goal, route of exposure</th>
<th>Used in</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>DNEL</td>
<td>0.164 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>DNEL</td>
<td>46.7 µg/kg</td>
<td>human, dermal</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
</tbody>
</table>

Relevant PNECs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Organism</th>
<th>Environmental compartment</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>PNEC</td>
<td>0.35 µg/l</td>
<td>aquatic organisms</td>
<td>freshwater</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>PNEC</td>
<td>30 µg/l</td>
<td>aquatic organisms</td>
<td>sewage treatment plant (STP)</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>PNEC</td>
<td>16.7 µg/kg</td>
<td>aquatic organisms</td>
<td>freshwater sediment</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>PNEC</td>
<td>0.72 µg/kg</td>
<td>aquatic organisms</td>
<td>marine sediment</td>
<td>short-term (single instance)</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls

- General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

- Wear eye/face protection.

Skin protection

- Hand protection
  
  Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material
  
  Nitrile

- Other protection measures
  
  Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

- In case of inadequate ventilation wear respiratory protection.
Environmental exposure controls
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>no data available</td>
</tr>
<tr>
<td>Odor</td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Other safety parameters</strong></td>
<td></td>
</tr>
<tr>
<td>pH (value)</td>
<td>not determined</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not relevant, (fluid)</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Density</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>not determined</td>
</tr>
<tr>
<td>Relative density</td>
<td>information on this property is not available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>not determined</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td></td>
</tr>
<tr>
<td>- n-octanol/water (log KOW)</td>
<td>this information is not available</td>
</tr>
</tbody>
</table>
**Auto-ignition temperature** | 309 °C
---|---
**Viscosity** | not determined
**Explosive properties** | none
**Oxidizing properties** | none

### 9.2 Other information
there is no additional information

---

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability
See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions
No known hazardous reactions.

#### 10.4 Conditions to avoid
There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials
Oxidizers

#### 10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

---

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects
Test data are not available for the complete mixture.

**Classification procedure**
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

- **Acute toxicity**
  - Toxic if swallowed. Fatal in contact with skin. Toxic if inhaled.

- **Acute toxicity estimate (ATE)**
  - Oral: 100 mg/kg
  - Dermal: 200 mg/kg
  - Inhalation: dust/mist: 0.54 mg/l/4h
10% Sodium Azide

Acute toxicity estimate (ATE) of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>ATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>oral</td>
<td>10 mg/kg</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>dermal</td>
<td>20 mg/kg</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td>inhalation: dust/mist</td>
<td>0.054 mg/l/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
The classification criteria for this hazard class are not met. Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation
The classification criteria for this hazard class are not met. Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization
The classification criteria for these hazard classes are not met.

Germ cell mutagenicity
Shall not be classified as germ cell mutagenic.

Carcinogenicity
The classification criteria for this hazard class are not met.

Specific target organ toxicity - single exposure
The classification criteria for this hazard class are not met. Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure
The classification criteria for this hazard class are not met.

Aspiration hazard
The classification criteria for this hazard class are not met.

SECTION 12: Ecological information

12.1 Toxicity
Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability
Data are not available.

12.3 Bioaccumulative potential
Data are not available.

12.4 Mobility in soil
Data are not available.

12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Other adverse effects
Data are not available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages
Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks
Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number 3287
14.2 UN proper shipping name Toxic liquid, inorganic, n.o.s.
14.3 Transport hazard class(es)
Class 6.1 (toxic substances)
14.4 Packing group II (substance presenting medium danger)
14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous goods regulations
14.6 Special precautions for user
There is no additional information.
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)

<table>
<thead>
<tr>
<th>Index number</th>
<th>Proper shipping name</th>
<th>- Particulars in the shipper’s declaration</th>
<th>- Reportable quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3287</td>
<td>Toxic liquid, inorganic, n.o.s.</td>
<td>UN3287, Toxic liquid, inorganic, n.o.s., 6.1, II</td>
<td>10,000 lbs (4,540 kg) (Sodium Azide)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class</th>
<th>Packing group</th>
<th>Danger label(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>II</td>
<td>6.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special provisions (SP)</th>
<th>ERG No</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB2, T11, TP2, TP27</td>
<td>151</td>
</tr>
</tbody>
</table>
Safety Data Sheet
acc. to 29 CFR 1910.1200 App D

10% Sodium Azide

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III )
- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)
The List of Extremely Hazardous Substances and Their Threshold Planning Quantities

<table>
<thead>
<tr>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>Notes</th>
<th>Reportable quantity (pounds)</th>
<th>Threshold planning quantity (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>a</td>
<td>1,000</td>
<td>500</td>
</tr>
</tbody>
</table>

Legend

a This material is a reactive solid. The TPQ does not default to 10,000 pounds for non-powder, non-molten, non-solution form.

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

<table>
<thead>
<tr>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>Remarks</th>
<th>Effective date</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium azide</td>
<td>26628-22-8</td>
<td></td>
<td>1995-01-01</td>
</tr>
</tbody>
</table>

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Remarks</th>
<th>Statutory code</th>
<th>Final RQ pounds (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>26628-22-8</td>
<td></td>
<td>4</td>
<td>1000 (454)</td>
</tr>
</tbody>
</table>

Legend

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act
none of the ingredients are listed

New Jersey Worker and Community Right to Know Act

Right to Know Hazardous Substance List

<table>
<thead>
<tr>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>Remarks</th>
<th>Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium azide</td>
<td>26628-22-8</td>
<td></td>
<td>R3</td>
</tr>
</tbody>
</table>

Legend

R3 Reactive - Third Degree

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987
none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III
10% Sodium Azide

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic</td>
<td>/</td>
<td>none</td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
<td>major injury likely unless prompt action is taken and medical treatment is given</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
<td>material that will not burn under typical fire conditions</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>0</td>
<td>material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive</td>
</tr>
<tr>
<td>Personal protection</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

NFPA® 704

<table>
<thead>
<tr>
<th>Category</th>
<th>Degree of hazard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
<td>material that will not burn under typical fire conditions</td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
<td>material that, under emergency conditions, can cause serious or permanent injury</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>material that is normally stable, even under fire conditions</td>
</tr>
<tr>
<td>Special hazard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

National inventories

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>TSCA</td>
<td>all ingredients are listed</td>
</tr>
</tbody>
</table>

Legend
TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Key literature references and sources for data

Classification procedure
Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).
Disclaimer

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