

# SODIUM AAS STANDARD SOLUTION 1000MG/L NA IN DILUTED HNO3 MSDS



CAS-No.: MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
:  
Product code : A260N

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

SPAN LAB  
UNIT NO. 14, SKY INDUSTRIAL ESTATE, WALIV, VASAI (E)  
401208 Mumbai - INDIA  
PH: +91 9820509929  
[info@spanlab.in](mailto:info@spanlab.in) [www.spanlab.in](http://www.spanlab.in)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, H290  
Category 1  
Skin corrosion/irritation, H315  
Category 2  
Serious eye damage/eye irritation, Category 2 H319

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO<sub>3</sub>

## Safety Data Sheet

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H290 - May be corrosive to metals.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.

Precautionary statements (CLP) :

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                          | Product identifier   | %      | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------------|--|--------|---|
| Water                         | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2                                | >= 75  | Not classified  |
| Nitric acid                   | (CAS-No.) 7697-37-2<br>(EC-No.) 231-714-2<br>(EC Index-No.) 007-004-00-1 | >= 1   | Ox. Liq. 1, H271<br>Skin Corr. 1A, H314                         |
| SODIUM NITRATE EXTRA PURE 99% | (CAS-No.) 7631-99-4  | >= 0.1 | Acute Tox. 4 (Oral), H302                                       |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. Get medical advice/attention.

# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO<sub>3</sub>

## Safety Data Sheet

|                                      |  |
|--------------------------------------|--|
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. |
| First-aid measures after ingestion   | : Rinse mouth. Do not induce vomiting.   |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Symptoms/effects after skin contact | : Causes skin irritation.        |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Carbon dioxide. Dry powder. Foam. Water spray.   |
| Unsuitable extinguishing media | : Do not use extinguishing media containing water. |

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
|--------------------------------|---|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Use personal protective equipment as required. |
|----------------------|--|

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |  |
|-------------------------|--|
| Methods for cleaning up | : On land, sweep or shovel into suitable containers. Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. |
|-------------------------|--|

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Avoid contact with skin and eyes. Do not breathe vapours.   |
| Hygiene measures              | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                    |  |
|--------------------|--|
| Storage conditions | : Keep container closed when not in use. |
|--------------------|--|

### 7.3. Specific end use(s)

No additional information available

# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO<sub>3</sub>

## Safety Data Sheet

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

|                          |  |
|--------------------------|--|
| Hand protection          | : Protective gloves  |
| Eye protection           | : Chemical goggles or safety glasses                               |
| Skin and body protection | : Wear suitable protective clothing                                |
| Respiratory protection   | : [In case of inadequate ventilation] wear respiratory protection. |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|  |                           |
|--|---------------------------|
| Physical state                             | : Liquid                  |
| Colour                                     | : Colourless.             |
| Odour                                      | : No data available       |
| Odour threshold                            | : No data available       |
| pH   | : No data available       |
| Relative evaporation rate (butylacetate=1) | : No data available       |
| Melting point                              | : No data available       |
| Freezing point                             | : No data available       |
| Boiling point                              | : No data available       |
| Flash point                                | : No data available       |
| Auto-ignition temperature                  | : No data available       |
| Decomposition temperature                  | : No data available       |
| Flammability (solid, gas)                  | : No data available       |
| Vapour pressure                            | : No data available       |
| Relative vapour density at 20 °C           | : No data available       |
| Relative density                           | : No data available       |
| Density                                    | : 1.011 g/cm <sup>3</sup> |
| Solubility                                 | : No data available       |
| Log Pow                                    | : No data available       |
| Viscosity, kinematic                       | : No data available       |
| Viscosity, dynamic                         | : No data available       |

# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO<sub>3</sub>

## Safety Data Sheet

|                      |                     |
|----------------------|---------------------|
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits     | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May be corrosive to metals.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Air contact. Direct sunlight. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Skin corrosion/irritation         | : Causes skin irritation.        |
| Serious eye damage/irritation     | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified                 |
| Germ cell mutagenicity            | : Not classified                 |
| Carcinogenicity                   | : Not classified                 |

|                       |                  |
|-----------------------|------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure  | : Not classified |

|                        |                  |
|------------------------|------------------|
| STOT-repeated exposure | : Not classified |
|------------------------|------------------|

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO<sub>3</sub>

## Safety Data Sheet

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 3264 |
| UN-No. (IMDG) | : 3264 |
| UN-No. (IATA) | : 3264 |
| UN-No. (ADN)  | : 3264 |
| UN-No. (RID)  | : 3264 |

#### 14.2. UN proper shipping name

|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (ADR)            | : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.                                   |
| Proper Shipping Name (IMDG)           | : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.                                   |
| Proper Shipping Name (IATA)           | : Corrosive liquid, acidic, inorganic, n.o.s.                                   |
| Proper Shipping Name (ADN)            | : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.                                   |
| Proper Shipping Name (RID)            | : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.                                   |
| Transport document description (ADR)  | : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, (E)              |
| Transport document description (IMDG) | : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, MARINE POLLUTANT |
| Transport document description (IATA) | : UN 3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, III                   |
| Transport document description (ADN)  | : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III                   |
| Transport document description (RID)  | : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III                   |

# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO3

## Safety Data Sheet

### 14.3. Transport hazard class(es)

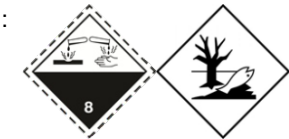
**ADR**

Transport hazard class(es) (ADR) : 8  
Danger labels (ADR) : 8



**IMDG**

Transport hazard class(es) (IMDG) : 8  
Danger labels (IMDG) : 8



**IATA**

Transport hazard class(es) (IATA) : 8  
Hazard labels (IATA) : 8



**ADN**

Transport hazard class(es) (ADN) : 8  
Danger labels (ADN) : 8



**RID**

Transport hazard class(es) (RID) : 8  
Danger labels (RID) : 8



### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III

# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO3

## Safety Data Sheet

Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : Yes (IMDG only)  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C1  
Special provisions (ADR) : 274  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T7  
Portable tank and bulk container special provisions (ADR) : TP1, TP28  
Tank code (ADR) : L4BN  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Hazard identification number (Kemler No.) : 80  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 2X  
APP code : B

#### - Transport by sea

Special provisions (IMDG) : 223, 274  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW2  
MFAG-No : 154

#### - Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y841  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 852



# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO3

## Safety Data Sheet

|                                 |       |
|---------------------------------|-------|
| PCA max net quantity (IATA)     | : 5L  |
| CAO packing instructions (IATA) | : 856 |
| CAO max net quantity (IATA)     | : 60L |
| Special provisions (IATA)       | : A3  |
| ERG code (IATA)                 | : 8L  |

### - Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : C1     |
| Special provisions (ADN)          | : 274    |
| Limited quantities (ADN)          | : 5 L    |
| Excepted quantities (ADN)         | : E1     |
| Carriage permitted (ADN)          | : T      |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

### - Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)                                 | : C1                      |
| Special provisions (RID)                                  | : 274                     |
| Limited quantities (RID)                                  | : 5L                      |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID)                            | : MP19                    |
| Portable tank and bulk container instructions (RID)       | : T7                      |
| Portable tank and bulk container special provisions (RID) | : TP1, TP28               |
| Tank codes for RID tanks (RID)                            | : L4BN                    |
| Transport category (RID)                                  | : 3                       |
| Special provisions for carriage – Packages (RID)          | : W12                     |
| Colis express (express parcels) (RID)                     | : CE8                     |
| Hazard identification number (RID)                        | : 80                      |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

Germany

# SODIUM AAS STANDARD SOLUTION 1000mg/L Na IN DILUTED HNO<sub>3</sub>

## Safety Data Sheet

|  |   |
|--|---|
| Reference to AwSV  | : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1) |
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)                                  |

### Netherlands

|   |                                     |
|---|-------------------------------------|
| SZW-lijst van kankerverwekkende stoffen   | : None of the components are listed |
| SZW-lijst van mutagene stoffen  | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding   | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling   | : None of the components are listed |

### Denmark

|                                   |   |
|-----------------------------------|---|
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product |
|-----------------------------------|---|

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4             |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2 |
| Met. Corr. 1        | Corrosive to metals, Category 1               |
| Ox. Liq. 1          | Oxidising Liquids, Category 1                 |
| Skin Corr. 1A       | Skin corrosion/irritation, Category 1A        |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2         |
| H271                | May cause fire or explosion; strong oxidiser. |
| H290                | May be corrosive to metals.                   |
| H302                | Harmful if swallowed.                         |
| H314                | Causes severe skin burns and eye damage.      |
| H315                | Causes skin irritation.                       |
| H319                | Causes serious eye irritation.                |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*