

# Material Safety Data Sheet in accordance with EC/1272/2008

## 1. Identification of the substance / preparation and company

### 1.1 Product Identifier

Product Nr.: ISA35

Trade Name: Sodium ISA solution

REACH Registration Number:

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses: Reagent for chemical analysis in the laboratory.

### 1.3 Information provided by

Company: Consort b.v.b.a.  
Hertenstraat 56 unit 9  
2300 Turnhout  
Belgium

Contact: Tel: +32 (0) 14 41 12 79  
[support@consort.be](mailto:support@consort.be)  
[info@consort.be](mailto:info@consort.be)

### 1.4 Emergency telephone:

Belgium: 070/245245 (Poison Control Center)

Other countries: Please check for the local poison control center.

## 2. Hazard identification

### 2.1 Classification of the substance or mixture.

According to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), **H302** (Harmful if swallowed)

Skin irritation/corrosion (Category 1B), **H314** (Causes severe skin burns and eye damage)

Specific target organ toxicity - single exposure (Category 3), Respiratory system, **H335** (may cause respiratory irritation)

Acute aquatic toxicity (Category 1), **H400** (Very toxic to aquatic life)

### 2.2 Label elements

According to Regulation (EC) No 1272/2008



Corrosive



Health Hazard



Hazardous to environment

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Lachrymator.

### 3. Composition / Information on ingredients

Cas N°	%	Chemical Name	LD50 (mg/kg) oral-rat
1336-21-6	14%	Ammonium hydroxide	43
12125-02-9	21%	Ammonium chloride	650
7732-18-5	65,00%	Water	---

### 4. First aid measures

#### 4.1 Description

1. General: Consult a physician. Show this safety data sheet to the doctor in attendance.
2. Inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
3. Skin: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
4. Eyes: Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.
5. Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
6. First Aid: Wash off contact area with plenty of water.

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

See labelling (section 2).

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

See 4.1.

### 5. Firefighting measures

#### 5.1 Extinguishing media:

- Extinguishing media to be used: Water, alcohol-resistant foam, dry chemical or CO<sub>2</sub>  
Extinguishing media not to be used: Does not apply

#### 5.2 Special hazards:

Nitrogen Oxides (NO<sub>x</sub>)

#### 5.3 Protective equipment:

Wear self-contained breathing apparatus for firefighting if necessary.

### 6. Accidental release measures

#### 6.1 Personal precautions:

- Use personal protective equipment.  
Avoid breathing vapours, mist or gas. Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
For personal protection see section 8.

#### 6.2 Environmental precautions:

- Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.  
Discharge into the environment must be avoided.

#### 6.3 Cleaning methods:

- Soak up with inert absorbent material and dispose of as hazardous waste.  
Keep in suitable, closed containers for disposal.

### 7. Handling and Storage

#### 7.1 Safe Handling

- Avoid contact with skin and eyes.  
Avoid inhalation of vapour or mist.  
For precautions see section 2.2.

## 7.2 Safe Storage

Store in a cool place.

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Non-combustible, corrosive hazardous materials.

## 8. Exposure controls / personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Handle in accordance with safety practice and good hygiene.

#### 8.2.2 Personal protective equipment

Use **eye/face protection**. Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Protective clothing** should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Handle with gloves. The selected **protective gloves** have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### 8.2.3 Environmental exposure controls

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Discharge into the environment must be avoided.

## 9. Physical and Chemical properties

### 9.1 Information on basic physical and chemical properties

#### (a) Appearance

Colourless liquid

#### (b) Odour

Ammonia odour

#### (c) Odour threshold

Data not available

#### (d) pH

9.1 - 11.5

#### (e) Melting point / freezing point

-10°C at barometric pressure of 1013 hPa

#### (f) Boiling point

100°C at barometric pressure of 1013 hPa

#### (g) Flash point

Data not available

#### (h) Evaporation rate

No data is available

#### (i) Flammability (solid, gas)

Does not apply, substance is a liquid. Not flammable.

#### (j) Upper/lower flammability or explosive limits

Data not available

#### (k) Vapour pressure

Data not available

#### (l) Vapour density

Data not available

#### (m) Relative density

Data not available

#### (n) Solubility

Water soluble

*(o) Partition coefficient: n-octanol/water*

Data not available

*(p) Auto-ignition temperature*

Data not available

*(q) Decomposition temperature*

Data not available

*(r) Viscosity*

Data not available

*(s) Explosive properties*

Can form explosive when in contact with Silver, Mercury, Gold halogens or chlorites.

*(t) Oxidising properties*

Does not apply, substance is not oxidising

## 10. Stability and reactivity

### 10.1 Reactivity

Can form explosive when in contact with Silver, Mercury, Gold halogens or chlorites.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature

### 10.3 Possibility of hazardous reactions

No hazardous reactions when handled and stored according to provisions. Keep away from Mercury, Gold and Silver compounds.

### 10.4 Conditions to avoid

See 10.1, 10.5

### 10.5 Incompatible materials

Strong Oxidisers, Calcium, Silver, Mercury, Gold, Halogens, Hypochlorite bleaches, HCl, HNO<sub>3</sub>, AgNO<sub>3</sub>, NH<sub>4</sub>, NO<sub>3</sub><sup>-</sup>

### 10.6 Hazardous decomposition products

Gives off toxic fumes when heated.

## 11. Toxicological information

### *Acute toxicity:*

See table of Ingredients in Section 3

### *Skin corrosion/Irritation:*

No data available. See additional information.

### *Serious eye damage/irritation:*

No data available. See additional information.

### *Respiratory or skin sensitisation:*

No data available. See additional information.

### *Germ cell mutagenicity:*

No data available.

### *Carcinogenicity:*

IARC: No substance of this product is known to be carcinogen in a concentration of at least 0.1 %.

### *Reproductive toxicity:*

No data available.

### *Specific target organ toxicity (single exposure):*

No data available.

### *Specific target organ toxicity (repeated exposure):*

No data available.

### *Aspiration hazard:*

No data available. See additional information.

### *Additional Information*

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, skin, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea.

## 12. Ecological information

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Very toxic to aquatic life.

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### 13.1.1 Product / Packaging disposal

Product remainders and the packaging must be offered to a licensed disposal company.

## 14. Transport information

### 14.1 UN number

ADR/RID: 2672

IMDG: 2672

IATA: 2672

### 14.2 UN proper shipping name

Ammonia Solution.

### 14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

### 14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

### 14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

### 14.6 Special precautions for user

## 15. Regulatory information

This safety data sheet is in accordance with the EC regulation 1907/2006

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

No data available

### 15.2 Chemical Safety Assessment

There has no chemical safety assessment been carried out.

## 16. Other information

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