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MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: Ammonium test solution ≤ 100 mM

Product Description: Solutions for testing ZP ammonium sensors

Product Code: ZPCH 100-000-00151

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

Recommended Use: Use as laboratory reagent/R&D.

Uses advised against: No information available.

1.3 Manufacture/Supplier Zimmer & Peacock AS

Address: Kjelleveien 21

3125 Tønsberg

Vestfold

Norway

Telephone: +47 95 22 12 34 (ZP)

Email: evenzimmer@zimmerpeacock.com

1.4 Emergency Telephone +47 95 22 12 34 (ZP)

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under GHS: H290; Corrosive to metals, category 1

H315; Skin corrosion/irritation, category 2.

H319; Serious eye damage/eye irritation, category

2A.

2.2 Label elements

Hazard symbol:



Signal word: Warning

Hazard statement: H290 May be corrosive to metals.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statement: P234 Keep only in original container.

> P280 Wear protective gloves/protective

clothing/eye protection/face protection.

P302+P361+P354: IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with

water for several minutes.

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P332+P317: IF SKIN irritation persists: Get

emergency medical help.

P337+P317: IF EYE irritation persists: Get emergency

medical help.

P390 Absorb spillage to prevent material damage.

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P406 Store in corrosive resistant/... container with a

resistant inner liner.

Storage: No metal containers. Store cool. Keep container

tightly closed.

Disposal: Dispose of waste in accordance with local authority

requirements

2.3 Other Hazards

PBT: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients to be disclosed according to regulations

Component	Cas-no	Content
Nitric acid	7697-37-2	< 10 %

4.1 First Aid Measures

General Advice: Use first aid treatment according to the nature of

the injury. For further assistance, contact your local Poison Control Center. Show this safety data sheet

to the doctor in attendance.

Eye Contact: Remove contact lenses and rinse with water as a

precaution.

Skin Contact: Wash off with soap and plenty of water.

Inhalation: Move to fresh air.

Ingestion: Drink water (two glasses at most). Seek medical

attention if feeling unwell

Production of First-Aiders: Use personal protective equipment. See Section 8

for more detail. Do not use mouth to mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask

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equipped with a one-way valve or other proper respiratory medical devices.

4.2 Most important symptoms and effects, both acute and delayed

Immediate effects can be expected after

No information available.

short-term exposure:

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: No information available.

5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Specific Hazards Arising from the substance or mixture

Nitrogen oxides, carbon oxides, not combustible.

5.3 Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Use personal protective equipment. Ensure adequate

ventilation. Avoid breathing dust, vapors, mists, or gas.

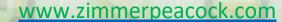
6.2 Environmental Precautions

Environmental Precautions: Do not discharge into drains.

6.3 Method and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so.

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Methods for Cleaning Up: Soak up with inert absorbent material. Clean surface

thoroughly to remove residual contamination. Never return

spills to original containers for re-use.

Large spill: Stop flow of material. Dike the spilled material. Absorb in vermiculite, dry sand or each and place into

containers. Dispose of properly.

7. HANDLING AND STORAGE

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7.1 Precautions for Safe Handling

Handling: To avoid risks to human health and the environment, comply

with the instructions for use. Wear personal protective

equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Ensure adequate ventilation, especially in confined areas.

General hygiene considerations: Handle in accordance with good industrial hygiene and

safety practice.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage: No metal containers. Keep container tightly closed in a dry

and well-ventilated place. Store in cool temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL): No information available

Predicted No Effect Concentration No information available

(PNEC):

8.2 Exposure controls

Appropriate Engineering Controls

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Engineering Measures: General industrial hygiene practice.

Individual protection measures, such as personal protective equipment

Eye/face Protection: Wear chemical splash goggles. If splashes are likely to occur

wear face-shield.

Skin and Body Protection: Wear protection gloves/clothing. Gloves must be inspected

> prior to use. Use proper glove removal technique to avoid skin contact. Dispose of contaminated gloves in accordance with applicable laws and good laboratory practices. Wash and dry

hands.

The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from

it.

Respiratory Protection: Respiratory protection not required.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety

practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

a) Physical State: Liquid

b) Appearance: Clear, colorless

c) Odor: No information available

d) Odor Threshold: No information available

No information available e) pH Range:

f) Melting point/freezing point: No information available

g) Boiling Point/Range: No information available

h) Flash Point (High in °C): No information available

Evaporation Rate: No information available

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j) Flammability (solid, gas): No information available

k) Flammability Limit in Air:

Upper flammability limit: No information available

Lower flammability limit: No information available

I) Vapor pressure: No information available

m) Vapor Density: No information available

n) Specific Gravity: No information available

o) Water Solubility: Fully miscible

p) Solubility in other solvents: No information available

q) Partition coefficient: No information available

r) Autoignition Temperature: No information available

s) Decomposition Temperature: No information available

t) Kinematic Viscosity: No information available

u) Dynamic Viscosity: No information available

v) Explosive Properties: No information available

w) Oxidizing Properties: No information available

x) Softening Point: No information available

y) VOC Content (%): No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information known.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Explosion Data

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Product is not explosive.

10.4 Possibility of Hazardous Reactions

None under normal storage conditions.

10.5 Conditions to Avoid

No further relevant information available.

10.6 Incompatible Materials

Strong oxidizing agents. Metals.

10.7 Hazardous Decomposition Products

In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation: No information available.

Eye Contact: No information available.

Skin Contact: No information available.

Ingestion: No information available.

11.2 Acute Toxicity

No information available

11.3 Information on Toxicological Effects

Symptoms: No information available

11.4 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: No information available.

Mutagenic Effects: No information available.

Carcinogenicity: No information available

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Reproductive Effects: No information available.

STOT – single exposure: No information available.

STOT – repeated exposure: No information available.

Aspiration hazard: No information available.

11.5 Numerical measures of toxicity – Product Information

Unknown Acute Toxicity: No information available.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No information available.

12.2 Persistence and Degradability

No information available.

12.3 Bioaccumulation/Accumulation

No information available.

12.4 Results of PBT and vPvB assessment

Not identified as a PBT/vPvB substance.

12.5 Other adverse effects

No information available.

12.6 Endocrine Disruptor Information

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Instructions

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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13.2 Waste Disposal Methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

13.3 Disposal of Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

14.1 UN number

DOT: 3264 IMDG: 3264 IATA: 3264

14.2 UN proper shipping name

ADR/RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)

IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)

IATA: Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid)

14.3 Transport hazard class(es)

DOT: 8 IMDG: 8 IATA: 8

14.4 Packaging group

DOT: III IMDG: III IATA: III

14.5 Environmental hazards

DOT: no IMDG Marine pollutant: No IATA: no

14.6 Special precautions for user:

No information available

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15. REGULATORY INFORMATION

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

No information available.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Issue Date: 16/01/2025

Version #: 0.0

Disclaimer:

IMPORTANT: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.