Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145	0.0	1 of 10
	ZP Sodium Test Solution ≤320 mM		

Document Title

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: ZP Sodium Test Solution, ≤320 mM

Product Description: Test solutions for sodium sensors

Product Code: ZPCH 100-000-00145

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: Building 24

Nedre vei 8

3183 Horten

Vestfold

Norway

Telephone: +47 95 22 12 34 (ZP)

Email: evenzimmer@zimmerpeacock.com

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

Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145	0.0	2 of 10
	ZP Sodium Test Solution ≤320 mM		

Document Title

MATERIAL SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under GHS: Not a hazardous substance or mixture

2.2 Label elements

Hazard symbol: Not a hazardous substance or mixture

Signal word: Not a hazardous substance or mixture

Hazard statement: Not a hazardous substance or mixture

Precautionary statement: P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P305 + P351 + P338 IF IN EYS: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical

advice/attention.

Storage: 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

No components need to be disclosed according to the applicable regulations.

Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145	0.0	3 of 10
	ZP Sodium Test Solution ≤320 mM		

Document Title

MATERIAL SAFETY DATA SHEET

4. FIRST AID MEASURES

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 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:

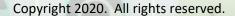
4.3 Indication of any immediate medical attention and special treatment needed

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.



Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145	0.0	4 of 10
	ZP Sodium Test Solution ≤320 mM		



Document Title

MATERIAL SAFETY DATA SHEET

5.2 Specific Hazards Arising from the substance or mixture

Hydrogen chloride gas, sulfur oxides.

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.

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

7.1 Precautions for Safe Handling

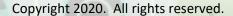
Handling: To avoid risks to human health and the environment, comply

with the instructions for use. Wear personal protective

equipment.

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

Ensure adequate ventilation, especially in confined areas.



n Page	
5 of 10)
	5 of 10

Document Title

MATERIAL SAFETY DATA SHEET

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

safety practice.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage: 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

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.

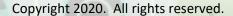
Skin and Body Protection: Wear protection gloves/clothing. Gloves must be inspected

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.



Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145 ZP Sodium Test Solution ≤320 mM	0.0	6 of 10
	ZF 30didili 163t 30idtioli 2320 illivi		

Document Title

MATERIAL SAFETY DATA SHEET

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

e) pH Range: No information available

f) Melting point/freezing point: No information available

g) Boiling Point/Range: No information available

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

i) Evaporation Rate: No information available

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

g) Partition coefficient: No information available

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Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145	0.0	7 of 10
	ZP Sodium Test Solution ≤320 mM		



Document Title

MATERIAL SAFETY DATA SHEET

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

No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information known.

y) VOC Content (%):

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Explosion Data

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 reducing and oxidizing agents.

10.7 Hazardous Decomposition Products

In the event of fire: see section 5.

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Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145	0.0	8 of 10
	7P Sodium Test Solution <320 mM		

Document Title

MATERIAL SAFETY DATA SHEET

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

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.

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Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145 ZP Sodium Test Solution ≤320 mM	0.0	9 of 10
Document Title			



MATERIAL SAFETY DATA SHEET

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.

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: -IMDG: -IATA: -

14.2 UN proper shipping name

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Document Type	Document ID	Version	Page
SDS	ZPCH 100-005-00145	0.0	10 of 10
	ZP Sodium Test Solution ≤320 mM		

Document Title

MATERIAL SAFETY DATA SHEET

Not dangerous goods

14.3 Transport hazard class(es)

DOT: - IMDG: - IATA: -

14.4 Packaging group

DOT: - IMDG: - IATA: -

14.5 Environmental hazards

DOT: no IMDG Marine pollutant: No IATA: no

14.6 Special precautions for user:

No information available

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: 30/06/2023

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.

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