

SAFETY DATA SHEET

Fix&Perm (GAS-002) containing azide

1. Product and company information

Products: Flow cytometry buffers with sodium azide. This SDS only refers to the Permeabilization Buffer B.

Manufacturer

Nordic-MUBio
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The Netherlands
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2. Hazards identification

General warnings and precautions

All reagents should be handled in accordance with good laboratory practices using appropriate precautions. In addition, handle all patient samples and control slides with appropriate precautions as described in "Biosafety in Microbial and Biomedical Laboratories", 2nd ed., 1988. HHS Publication No. (CDC) 88-8395, Centers for Disease Control.

GHS- Classification

Ozone	Not applicable
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GHS Label elements, including precautionary statements: Not dangerous.

Other information: No information available.

3. Composition/Information on Ingredients

Chemical name	CAS-No	Weight %	Classification (Reg. 1272/2008)
Sodium Azide	26628-22-8	0.05-1	Acute Tox. 2 (H300) Acute Tox. 1 (H310) Aquatic Acute 1 (H400)

			Aquatic Chronic 1 (H410) (EUH032)
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For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

General advice

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Ingestion

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

Inhalation

Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Notes to physician

Treat symptomatically.

Protection of first-aiders

Use personal protective equipment.

5. Firefighting measures

Flammable properties

Not flammable.

Flash point

Not determined.

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Explosion data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

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

Personal precautions

Ensure adequate ventilation.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers.

7. Handling and storage

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product.

Technical measures/ Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

8. Exposure controls and personal protection

Exposure guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium azide 26628-22-8	Ceiling: 0.29 mg/m ³ NaN ₃ Ceiling: 0.11 ppm Hydrazoic acid vapor	(vacated) S* (vacated) Ceiling: 0.1 ppm HN ₃ (vacated) Ceiling: 0.3 mg/m ³ NaN ₃	Ceiling: 0.1 ppm HN ₃ Ceiling: 0.3 mg/m ³ NaN ₃

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering measures:

Showers, eyewash stations, ventilation systems.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles.

Skin and body protection

No special protective equipment required.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne

contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical characteristics

Appearance, odor threshold, flashpoint, decomposition temperature, melting point/range, explosion limits, specific gravity, evaporation rate, VOC content (%), odor, physical state @ - 20C, autoignition temperature, boiling point/range, flammability limits in air, solubility, vapor density no data or information available.

pH=7.6

10. Stability and reactivity

Stability

Stable under recommended temperatures and pressures.

Hazardous incompatibilities

Metals and metallic compounds.
Strong acids, strong oxidizing agents, powdered metals and reducing agents.
Sodium azide forms explosive compounds with heavy metals. The components of this product contain concentration of azide < 0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the buildup of shock sensitive compounds.

Hazardous decomposition products

When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

Conditions to avoid

Keep away from incompatible material.

Hazardous polymerization

Hazardous polymerization does not occur.

11. Toxicological Information

Acute toxicity

Product Information: Product does not present an acute toxicity hazard based on known or supplied information.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Azide	27 mg/kg (Rat)	50 mg/kg (Rat) 20 mg/kg (Rabbit)	

Chronic toxicity

Target organ effects: none known

12. Ecological information

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium Azide		0.8: 96 h Oncorhynchus mykiss mg/L LC50 0.7: 96 h Lepomis macrochirus mg/L LC50 5.46: 96 h Pimephales promelas mg/L LC50 flow-through		

13. Disposal considerations

Waste disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate

state, regional, or local regulations for additional requirements.

Contaminated packaging

Do not re-use empty containers.

US EPA Waste Number

P105

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium azide - 26628-22-8		P105		

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium Azide	Ignitable Reactive

14. Transport information

Not classified as dangerous goods under DOT, IATA, or ADR.

15. Regulatory information

U.S. Federal Regulations

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act

(CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium Azide	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium Azide	X	X	X		X

International Regulations

WHMIS Note: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. Other information

Full text of H-Statements referred to under sections 2 and 3

H300 - Fatal if swallowed H310 - Fatal in contact with skin H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

Revision 2

Revision Date 05 July 2018

Revision Note No information available.

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