

Version: 3

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Rangeerweg 5A 6114 BC Susteren The Netherlands T: +31 6 83611669

SAFETY DATA SHEET GAS-002-CE/IVD, GAS-002M-CE/IVD, GAS-002-1-CE/IVD, GAS-002A-1-CE/IVD

according Regulation (EC) No 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. <u>Product identifier</u>: FIX&PERM®

Product code: GAS-002-CE/IVD

This Safety Data Sheet concerns the following GAS-002 formulations:

GAS-002-CE/IVD, GAS-002M-CE/IVD, GAS-002-1-CE/IVD, GAS-002A-1-CE/IVD. For all kits: Please note, the information in this Safety Data Sheet applies only to Solution A!

1.2. Particulars of supplier who prepared the safety datasheet

Producer:

Nordic Immunological Laboratories B.V., Tradename Nordic-MUbio

Rangeerweg 5A

6114 BC Susteren, The Netherlands

www.nordicmubio.com info@nordicmubio.com Tel: +31 683611669

1.3. <u>Emergency telephone number:</u> Contact National Poison Information Center.

2. HAZARDS IDENTIFICATION

2.1. <u>Classification of the substance or mixture</u>

Classification in accordance with CLP Regulation 1272/2008:

Acute Tox 4: H302 Acute Tox 4: H332 Mutagenic 2: H341 Carcinogen 1B: H350 Eye Irrit 2: H319 STOT SE 3: H335 Skin Irrit 2: H315 Skin Sens 1: H317

For the full text of the H-statements mentioned in this Section, see Section 16.

Signal word: Danger

2.2. <u>Label elements</u>

Hazardous substance content: Formaldehyde





Danger

H302: Harmful if swallowed H332: Harmful if inhaled

H341: Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H350: May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H315: Causes skin irritation



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H317: May cause an allergic skin reaction

P270: Do not eat, drink or smoke when using this product

P312: Call a POISON CENTRE/doctor/... if you feel unwell.

P201: Obtain special instructions before use.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: 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.

P302+P352: IF ON SKIN: Wash with plenty of water

P308+P313: IF exposed or concerned: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

Reduced labeling (≤ 125ml):

Hazardous substance content: Formaldehyde





Danger

H341: Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H350: May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H317: May cause an allergic skin reaction

P201: Obtain special instructions before use.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

Health hazard

2.3. Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixture:

Chemical name	CAS No.:	EC no.:	Index nr	Conc. (%)	Classification
Formaldehyde	50-00-0	200-001-8	605-001-00-5	4 - 10	Acute Tox 3: H301 Acute Tox 3: H311 Skin Corr 1B: H314 Skin Sens 1: H317 Acute Tox 3: H331 Mutagenic 2: H341 Carcinogen 1B: H350 Specific concentration limits: Eye Irrit. 2; H319: $5\% \le C < 25\%$ STOT SE 3; H335: $C \ge 5\%$ Skin Corr. 1B; H314: $C \ge 25\%$ Skin Irrit. 2; H315: $5\% \le C < 25\%$ Skin Sens. 1; H317: $C \ge 0.2\%$



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4. FIRST AID MEASURES

4.1. Description of first aid measures:

Contact medical personnel immediately.

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

Remove contaminated clothing.

Remove to fresh air.

Separate eyelids with finger tips.

Wash skin with deluge of water for at least 15 minutes.

4.2. <u>Most important symptoms and effects, both acute and delayed:</u>

No data available.

4.3. <u>Indication of any immediate medical attention and special treatment needed:</u>

Symptomatic treatment is needed.

5. FIREFIGHTING MEASURES

5.1. <u>Extinguishing media:</u>

5.1.1. Suitable extinguishing media:

CO2, extinguishing powder, foam or water.

5.1.2. Unsuitable extinguishing media:

None known.

5.2. Special hazards arising from the substance or mixture:

Hazardous decomposition products: formaldehyde gas, carbon monoxide.

5.3. Advice for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. <u>Personal precautions, protective equipment and emergency procedures:</u>

6.1.1 For non-emergency personnel:

Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.

6.1.2. For emergency responders:

Wear appropriate protective equipments (see Section 8)!

Ensure adequate ventilation.

6.2. <u>Enivornmental precautions:</u>

Dispose of spillage and waste (product/packaging) in accordance with all applicable environmental laws. Do not allow to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. <u>Methods and material for containment and cleaning up:</u>

Collect the spilled material with sand or vermiculite, then place into a suitable, closed, properly labelled chemical waste container for disposal. During disposal wear suitable personal protective equipment. Wash non-recoverable residues with large amounts of water.

6.4. Reference to other sections:

For further and detailed information see section 8 and 13.

7. HANDLING AND STORAGE

7.1. <u>Precautions for safe handling:</u>

Precautions for safe handling:

Observe conventional hygiene precautions.

Technical measures:

Ensure adequate ventilation!

Precautions against fire and explosion:

No specific prescription.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

Keep in original, closed and labelled container.

The place of storage has to be properly ventilated and cleanable.

Store in cool and dry place.

Store at room temperature.

Follow all instructions on the label.

Incompatible materials: strong acids, strong bases, phenol, hydrochloric acid.

Packaging material: no special prescriptions.



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7.3. Specific end use(s):

No specific instructions available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1 Appropriate engineering controls

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Ensure adequate ventilation.

In the vicinity of the workplace safety shower and eye washing fountain has to be installed.

Wash thoroughly after handling of the product.

- 8.2.2. Individual protection measures, such as personal protective equipment:
 - 1. Eye/face protection: use appropriate protective goggles.
 - 2. Skin protection:
 - a. Hand protection: use appropriate chemical resistant protective gloves.
 - b. Other: Use appropriate protective clothes.
 - 3. Respiratory protection: use adequate respirator.
 - 4. Thermal hazard: None known.
- 8.2.3. Environmental exposure controls:

No specific prescription.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1. <u>Information on basic physical and chemical properties:</u>

10. Upper/lower flammability or explosive

Parameter Test method: Remarks:

1. Appearance: Colourless liquid
2. Odour: pungent

no data available

3. Odour threshold:

pH value:
no data available

5. Melting point/ freezing point:

no data available
no data available
ca. 100 °C

7. Flash point:

bevaporation rate:
no data available
no data available

8. Evaporation rate:

no data available
no data available

9. Flammability:

no data available

limits:

11. Vapour pressure: no data available12. Relative density: > 1,00

12. Relative density: > 1,00

13. Solubility(ies): Miscible with water.

Not soluble in fats.

14. Partition coefficient: n-octanol/water: no data available

14. Partition coefficient: n-octanol/water: no data available
15. Self-ignition temperature: no data available
16. Degradation temperature: no data available
17. Viscosity: no data available
18. Explosive properties: no data available
19. Oxidizing properties: no data available

9.2. <u>Other information:</u>

No data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity:

None known.

10.2. <u>Chemical stability:</u>

At normal temperature: stabile at general conditions of work.

10.3. <u>Possibility of hazardous reactions:</u>

oxidation may occur.

10.4. <u>Conditions to avoid:</u>

none known.



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10.5. <u>Incompatible materials:</u>

strong acids, strong bases, phenol, hydrochloric acid.

10.6. <u>Hazardous decomposition products:</u>

formaldehyde gas, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information applies only to "Formaldehyde" and not to the mixture!

This product has not been tested. Evaluation on the expected toxicity have been made upon application of the conventional method.

11.1. Information on toxicological effects:

Acute toxicity: Harmful by inhalation, in contact with skin and if swallowed.

Irritation: Irritates the skin and eyes, irritates the respiratory tract.

Sensitisation: May cause sensitization by skin contact

Repeated dose toxicity: none known.

Carcenogenity: Limited evidence of a carcinogenic effect.

Mutagenicity: None known.

Reproduction toxicity: none known.

11.1.1. For substances subject to registration, brief summaries of the information derived from the test conducted:

No data available.

11.1.2. Relevant toxicological properties of the hazardous substances:

LD₅₀ (oral, rat): 100 mg/kg

LD₅₀ (dermal, rabbit): 270 μl/kg

LC₅₀ (inhalative, rat): 203 mg/m³

11.1.3. Information on likely routes of exposure:

ingestion, inhalation, skin and eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Harmful by inhalation, in contact with skin and if swallowed.

Irritates the skin and eyes, irritates the respiratory tract.

Limited evidence of a carcinogenic effect. May cause sensitization by skin contact

11.1.6. Interactive effects:

No data available.

11.1.7. Absence of specific data:

No information.

11.1.8. Other information:

No data available.

12. ECOLOGICAL INFORMATION

12.1. <u>Toxicity:</u>

Water hazard class (wgk, German regulation, self-classification): 2 (hazardous for the water)

12.2. <u>Persistence and degradability:</u>

No data available.

12.3. <u>Bioaccumulation potential:</u>

No data available.

12.4. Mobility in soil:

No data available.

12.5. Results of PBT and vPvB assessment:

No data available.

12.6. Other adverse effects:

No data available.

13. DISPOSAL CONSIDERATIONS

13.1. <u>Waste treatment methods:</u>

Disposal according to the local regulations.

1. Information regarding the disposal of the product:

In case of larger quantities: send the waste of the product to a licensed company dealing with disposal.

European Waste Code:

16 10 03* aqueous concentrates containing dangerous substances

13.1.2. Information regarding the disposal of the packaging:



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Rinse the container thoroughly with water then re-use it.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:

None known.

13.1.4. Sewage disposal:

None known.

13.1.5. Special precautions for any recommended waste treatment:

No data available.

14. TRANSPORT INFORMATION

Not dangerous good in sense of the transport regulations!

- 14.1. UN Number: -
- 14.2. <u>UN proper shipping name:</u> -
- 14.3. <u>Transport hazard class(es):</u> -
- 14.4. Packing group: -
- 14.5. Environmental hazards: -
- 14.6. Special precautions for user: -
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: -

15. REGULATORY INFORMATION

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2. <u>Chemical safety assessment:</u> has not been carried out for this product.

16. OTHER INFORMATION

Information regarding the revision of the safety data sheet: -

Full text of the abbreviations in the safety data sheet:

DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenity, mutagenicity and toxicity for reproduction: PBT: Persistent, bioaccumulative and toxic. . n.d.: not defined. . n.a.: Not applicable. . Data sources: -

Relevant H-Phrases (number and full text) of Section 3:

H302 – Harmful if swallowed.

H312 - Harmful in contact with skin.

 $\label{eq:H318} \textbf{H318} - \textbf{Causes serious eye damage}.$

H350 - Suspected of causing cancer

Training instructions: -

Recommended restrictions on use (non-statutory recommendations by supplier): -

This safety data sheet had been prepared on the basis of information provided by the manufacturer. The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required. Since the conditions or the handling, the storage and the disposal of this product are beyond the control of the manufacturer, the distributor or the preparer of this SDS, no warranty, expressed or implied, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. No responsibility is assumed regarding the accuracy, completeness or suitability of all or any of the information contained herein or the results to be obtained from the use thereof at the time of use.



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Revision 3 Revision Date April 25,2022 Revision Note No information available.

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