



NanoRestore Gel Dry

Safety Information Data Sheet

The sheet is not mandatory, because the product is not hazardous, according to the 1272/2008/CE (CLP) regulations and doesn't require a safety data sheet in accordance with Article 31 (3) of the REACH Regulation 1907/06/CE as amended by art. 59(2)(b) of Reg 1272/08.

Template based on Annex II of REACH - Regulation (EU) 2020/878

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

1.1 Product identifier

Trade name: NanoRestore Gel Dry

UFI: 5C5C-M5X0-M001-MF96

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

Intended use: Hydrogel for artwork cleaning.

Use type: professional, industrial.

1.3 Details of the supplier of the safety data sheet

Name CSGI – Consorzio Interuniversitario per lo Sviluppo dei Sistemi a Grande Interfase.

Full Address / Country Via della Lastruccia 3

50019 Sesto Fiorentino (FI) - ITALY

VAT N. IT 04519240487

Phone +39 055 457 3034

e-mail address of the competent person responsible for the Safety Data Sheet:

products@csgi.unifi.it

1.4 Emergency telephone number: Phone. +39 055 457 3034 CSGI from 8am to 5pm GMT+1.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product is not dangerous under Regulation (EC) 1272/2008 (CLP) (and subsequent amendments).

Classification and warning information: None

2.2 Label Elements

Danger labelling under Regulation (CE) 1272/2008 and following amendments and adjustments.

Hazard pictogram(s): None

Signal word(s): None

Hazard statement(s): None

Precautionary statement(s): None

Ingredients compliant with Regulation (EC) No. 648/2004

Between 15% and 30% non-ionic surfactants.

2.3 Other hazards

Based on the available data, the product does not contain PBT or vPvB percentage $\geq 0.1\%$.

The product does not contain substances having properties of interference with the endocrine system in a concentration $\geq 0.1\%$.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

The product does not contain substances classified as dangerous for health or the environment pursuant to the provisions of the Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments) in quantities that require a declaration.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Not specifically necessary. In any case, compliance with the rules of good industrial hygiene is recommended.



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EYES: Remove any contact lenses. Wash with plenty of water at least for 15 minutes; if the irritation persists, seek medical advice.

SKIN: Not specifically needed. In any case, it is recommended to respect the rules of good industrial hygiene.

INHALATION: Bring the person outdoors. If breathing is difficult, seek medical advice immediately.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

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

See section 11 for more detailed information on health effects and symptoms.

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

Seek medical attention when indicated at the paragraph 4.1.

See section 11 for more detailed information on health effects and symptoms.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

SUITABLE EXTINGUISHING

Water fog, Carbon Dioxide (CO₂), foam, dry chemical, depending on the materials involved.

EXTINGUISHING MEDIA NOT SUITABLE

None.

5.2. Special hazards arising from the substance or mixture

HAZARDOUS COMBUSTION PRODUCTS

Avoid breathing products of combustion.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

EQUIPMENT

Normal clothing to fight the fire, like an open circuit breathing apparatus with compressed air (EN 137), complete with flame retardant (EN469) flame-resistant gloves (EN 659) and boots Firefighter (HO A29 or A30).

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

Do not handle a damaged container or the leaked product without first wearing the appropriate protective equipment. For information on the risks about health and environment, protection of the respiratory track, ventilation and equipment of protection, please refer to other sections of this sheet.

6.2. Environmental precautions.

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up.

Suck up the product into a suitable container. Assess the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the area affected by the leak. Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections.

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling.

Handle the product after consulting all other sections of this MSDS. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke while handling it.

7.2. Conditions for safe storage, including any incompatibilities.

Storage at room temperature and away from direct sunlight, in the labelled, original packaging before use. Keep far away



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from incompatible substances, see section 10.

7.3. Specific end use(s).

Information not available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Information not available.

8.2. Exposure controls.

Observe the safety measures used in handling chemical substances.

HAND PROTECTION

Not necessary under normal conditions.

EYE PROTECTION

Not necessary under normal conditions.

SKIN PROTECTION

Not necessary under normal conditions.

RESPIRATORY PROTECTION

Not necessary under normal conditions.

ENVIRONMENTAL EXPOSURE CONTROLS.

Emissions from production processes, including those from ventilation should be checked for the purposes of compliance with environmental protection. Product residues should not be downloaded without control in waste water or water course.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Liquid - Gel

Colour: colourless - white

Odour: Typical

Odor Threshold: No test data available.

Melting point / freezing point: (°C): No test data available.

Initial boiling point and boiling range: > 100°C (water) at 25°C

Flammability (liquids) Not flammable.

Explosive Limit – Lower (%): No test data available.

Explosive Limit – Upper (%): No test data available.

Flash point: No test data available.

Auto-ignition temperature No test data available.

Decomposition temperature Not applicable. Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.

pH: 7 ca.

Kinematic Viscosity No test data available.

Solubility Miscible with water

Partition coefficient: n-octanol/water No test data available.

Vapor Pressure No test data available.

Density and/or relative density: 1 Kg/l

Relative Vapor Density No test data available.

Particle characteristics Do not apply to liquid.

9.2. Other information.

9.2.1. Information relating to the classes of physical hazards

Information not available.

9.2.2. Other security features

Information not available.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity.

There are no known reactivity hazards associated with this product.

10.2. Chemical stability.



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Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions.

The product is stable in normal conditions of use and storage.

10.4. Conditions to avoid.

None. Follow the usual precautions against chemicals.

10.5. Incompatible materials.

Strong oxidizing agents.

10.6. Hazardous decomposition products.

Information not available

SECTION 11. TOXICOLOGICAL INFORMATION

There are no known episodes of damage to health due to exposure to the product. In any case, it is recommended to operate in compliance with the rules of good industrial hygiene.

11.1. Information on the hazard classes as defined in Regulation (EC) No. 1272/2008

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Immediate, delayed and chronic effects and effects from short and long term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) Mixture: Not classified (no relevant component).

ATE (Oral) Mixture: Not classified (no relevant component).

ATE (Dermal) Mixture: Not classified (no relevant component).

SKIN CORROSION/IRRITATION

Based on available data the classification criteria are not met.

SERIOUS EYE DAMAGE/EYE IRRITATION

Based on available data the classification criteria are not met.

RESPIRATORY OR DERMAL SENSITIZATION

Based on available data the classification criteria are not met.

GERM CELL MUTAGENICITY

Based on available data the classification criteria are not met.

CARCINOGENICITY

Based on available data the classification criteria are not met.

REPRODUCTIVE TOXICITY

Based on available data the classification criteria are not met.

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)

Based on available data the classification criteria are not met.

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)

Based on available data the classification criteria are not met.



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ASPIRATION HAZARD

Based on available data the classification criteria are not met.

11.2. Information on other hazards

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with assessed effects on human health.

SECTION 12. ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid litter. Inform the competent authorities if the product reach waterways or sewer or contaminate soil or vegetation.

12.1. Toxicity.

Information not available

12.2. Persistence and degradability.

Information not available

12.3. Bioaccumulative potential.

Information not available

12.4. Mobility in soil.

Information not available

12.5. Results of PBT and vPvB assessment.

Based on the available data, the product does not contain PBT or vPvB percentage $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with assessed effects on the environment.

12.7. Other adverse effects.

Information not available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods.

Recycle if possible. Product residues are considered special waste. The hazard must be evaluated according to applicable regulations. Disposal should be entrusted to an authorized waste management, in compliance with national and local applicable regulations.

CONTAMINATED PACKAGING

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

This product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable.

14.2. Proper shipping name.

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group.

Not applicable.



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14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for users.

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not relevant information.

SECTION 15. REGULATORY INFORMATION

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

Reg. (EC) 18/2012: None.

Restrictions relating to the product or contained substances based on Annex XVII, Regulation (EC) 1907/2006.

None.

Regulation (EC) Nr. 2019/1148 - concerning the placing on the market and use of explosives precursors.

Not applicable.

Candidate List substances (Art. 59 REACH).

Based on available data, the product does not contain SVHC substances $\geq 0.1\%$.

Substances Subject authorization (annex XIV REACH).

None.

Substances subject to export notification Reg. (EC) 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Regulation (EC) No. 648/2004

Ingredients compliant with Regulation (EC) No. 648/2004

The surfactant(s) contained in this formulation is (are) compliant with the biodegradability criteria established by Regulation (EC) No. 648/2004 relating to detergents. All supporting data are kept at the disposal of the competent authorities of the Member States and will be provided, at their explicit request or at the request of a manufacturer of the formulation, to the aforementioned authorities

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for the mixture. The suppliers of the substances or MIM communicate that they have not carried out the chemical safety assessment and there are no related scenarios present.

SECTION 16. OTHER INFORMATION

LEGEND:

- ADR: European Agreement concerning the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- EC NUMBER: ID number in ESIS (European archive of existing substances)
- CLP: Regulation EC 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonised System for the classification and labelling of chemicals
- IATA DGR: Regulation for the transport of dangerous goods by the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International Maritime Code for Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: ID number in Annex VI of the CLP
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predicted Environmental Concentration
- PEL: predictable level of exposure
- PNEC: Predicted No Effect Concentration



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- REACH Regulation EC 1907/2006
- RID: Regulations concerning the international carriage of dangerous goods by train
- STA: Acute Toxicity Estimate
- TLV: Threshold Limit Value
- TLV CEILING: Concentration which should not be exceeded during any time of occupational exposure.
- TWA STEL: Short Term Exposure Limit
- TWA: Time-weighted Average limit value
- VOC: Volatile Organic Compound
- VPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 2020/878 (Annex II of the REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (EU) 2023/707

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- Web Site Agency ECHA

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

CLASSIFICATION'S CALCULATING METHODS

Chemical and physical hazards: The product is classified on the bases of the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the chemical-physical properties are reported in section 9.

Health hazards: The classification of the product is based on the calculation methods set out in Annex I of the CLP Part 3, unless it is otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods referred to in Annex I of the CLP Part 4, unless it is otherwise indicated in section 12.

Changes from the previous revision



CSGI

Consorzio Interuniversitario per lo Sviluppo dei Sistemi a Grande Interfase
Center for Colloid and Surface Science

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