

Material Safety Data Sheet (REACH)
EC 1907/2006 EU830/2015
Rev 30 October 2022

HYGIENIATOUCH+ GLASS

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

1.1 PRODUCT IDENTIFIER:

HygieniaTouch+ Glass

1.2 RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:

Intended uses (main technical functions):

Photocatalytic Coating for non-porous substrates. Waterborne

Industrial Professional Consumers

Sections of use:

Professional uses (SU22).

Consumer uses (SU21)

Uses advised against:

None. As there is not classified as dangerous, this product can be used in ways other than the identified uses, but all uses have to be consistent with the safety guidelines provided.

Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:

Not restricted.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

IngeniaTouch Ltd.

Reg. 36 Fitzwilliam Square, Dublin 2, D02 HX82, Ireland

Phone: +353 879 010 419

E-mail address of the person responsible for the safety data sheet:

info@ingeniatouch.com

1.4 EMERGENCY TELEPHONE NUMBER: +353 879 010 419

SECTION 2 : HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

This product is not classified as dangerous. in accordance with Regulation (EC) No. 1272/2008-2017/776 (CLP)

Note: This product does not require a Safety Data Sheet according to the Regulation (EC) no. 2015/830. When used as recommended or under ordinary conditions, it should not present a physicochemical, health safety or environmental hazard. However, an MSDS can be provided as a courtesy in response to a customer request.

2.2 LABEL ELEMENTS:

This product does not require pictograms, in accordance with Regulation (EC) No. 1272/2008-2017/776 (CLP)

Hazard statements:

None.

Precautionary statements:

P102 Keep out of reach of children.

P280B Wear protective gloves and eye protection.

P273 Avoid release to the environment.

Supplementary statements:

None

Hazardous ingredients:

None.

2.3 OTHER HAZARDS:

Hazards which do not result in classification, but which may contribute to the overall hazards of the mixture:

Other physicochemical hazards: No other relevant adverse effects are known.

Other adverse human health effects: No other relevant adverse effects are known.

Other negative environmental effects: Does not contain substances that fulfil the PBT/vPvB criteria.

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:

Not applicable (mixture).

3.2 MIXTURES:

This product is a mixture.

Chemical description:

Mixture of chemical substances in aqueous media.

HAZARDOUS INGREDIENTS:

Substances taking part in a percentage higher than the exemption limit:

None

Impurities:

Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:

None

Reference to other sections:

For more information, see sections 8, 11, and 12.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 27/06/2018.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES

Does not contain substances that fulfil the PBT/vPvB criteria

SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:



Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Route of exposure

Inhalation:

Symptoms and effects, acute and delayed

Normally does not produce symptoms.

Description of first-aid measures

Should there be any symptoms, transfer the person affected to the open air.

Skin:

Normally does not produce symptoms.

Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.

Eyes:

Normally does not produce symptoms.

Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.

Ingestion:

If swallowed in high doses, may cause gastrointestinal disturbances.

If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

4.3 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

The main symptoms and effects are indicated in sections 4.1 and 11

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient.

Antidotes and contraindications: There is no specific antidote.

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SECTION 5 : FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

In the case of fire in the surroundings, all extinguishing agents are allowed.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

As consequence of combustion or thermal decomposition, hazardous products may be produced. Exposure to combustion or decomposition products maybe a hazard to health

5.3 ADVICE FOR FIREFIGHTERS:

Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.

Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Avoid direct contact with this product.

6.2 ENVIRONMENTAL PRECAUTIONS:

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc..). Avoid use of solvents. Keep the remains in a closed container.

6.4 REFERENCE TO OTHER SECTIONS:

For contact information in case of emergency, see section 1.

For information on safe handling, see section 7.

For exposure controls and personal protection measures, see section 8.

For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7 : HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Comply with the existing legislation on health and safety at work.

General recommendations:

Avoid any type of leakage or escape. Keep the container tightly closed.

Recommendations for the prevention of fire and explosion risks:

The product is not liable to ignite, deflagrate or explode, and does not sustain the combustion reaction by oxygen from air in the environment in which it is, so it is not included in the scope of Directive 94/9/EC concerning equipment and protective systems intended for use in potentially explosive atmospheres.. Also, they are not applicable the provisions of the ITC MIE BT-29 on the detailed requirements for electrical installations in locals with risk of fire or explosion

Recommendations for the prevention of toxicological risks:

Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

Recommendations for the prevention of environmental contamination:

It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Prevent unauthorized access. Keep out of reach of children. Keep away from sources of heat. If possible, avoid direct contact with sunlight. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

Class of store :

According to current legislation.

Maximum storage period :

12. months

Temperature interval :

min: 5. °C, max: 40. °C (recommended).

Incompatible materials:

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Type of packaging:

According to current legislation.

Limit quantity (Seveso III): Directive 2012/18/EU:

Not applicable (product for non industrial use).

7.3 SPECIFIC END USES:

For the use of this product do not exist particular recommendations apart from that already indicated.

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RELEVANT EXPOSURE SCENARIOS:

Not required for this material, since it is not classified as dangerous for the health and it is not classified as dangerous for the environment.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV) AGCIH 2011:

Not established.

BIOLOGICAL LIMIT VALUES:

Not established

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers:

- Systemic effects, acute and chronic:

Not available (without data of registration REACH)

DNEL Inhalation

mg/m³

DNEL Cutaneous

mg/kg bw/d

DNEL Oral

mg/kg bw/d

Derived no-effect level, workers:

- Local effects, acute and chronic:

Not available (without data of registration REACH)

DNEL Inhalation

mg/m³

DNEL Cutaneous

mg/cm²

DNEL Eyes

mg/cm²

Derived no-effect level, general population:

- Systemic effects, acute and chronic:

Not available (without data of registration REACH)

DNEL Inhalation

mg/m³

DNEL Cutaneous

mg/kg bw/d

DNEL Oral

mg/kg bw/d

Derived no-effect level, general population:

- Local effects, acute and chronic:

Not available (without data of registration REACH)

DNEL Inhalation

mg/m³

DNEL Cutaneous

mg/cm²

DNEL Eyes

mg/cm²

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: PNEC Fresh water

- Fresh water, marine water and intermittent release: mg/l

Not available (without data of registration REACH)

PNEC Marine PNEC

mg/l

Intermittent

mg/l

- Wastewater treatment plants (STP) and sediments in fresh- and marine water:

Not available (without data of registration REACH)

PNEC STP

mg/l

PNEC Sediments

mg/kg dry weight

PNEC Sediments

mg/kg dry weight

Predicted no-effect concentration, terrestrial organisms: PNEC Air

- Air, soil and effects for predators and humans: mg/m³

Not available (without data of registration REACH)

PNEC Soil

mg/kg dry weight

PNEC Oral

mg/kg bw/d

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8.2 EXPOSURE CONTROLS:

ENGINEERING MEASURES:



Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system: Avoid the inhalation of vapors

Protection of eyes and face: It is recommended to dispose of water taps or sources with clean water close to the working area.

Protection of hands and skin: It is recommended to dispose of water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc.), you should consult the informative brochures provided by the manufacturers of PPE.

Mask: No.

Goggles: Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

Face shield: No.

Gloves: Use suitable protective rubber or PVC gloves (EN374), when the product is handled for prolonged periods. When short contact with the product is expected, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of protective gloves resistant against chemicals is clearly lower than the established standard EN374. Do not use PVA gloves as PVA does not resist water. The gloves should be immediately replaced when any sign of degradation is noted.

Boots: No.

Apron: No.

Clothing: No.

Thermal hazards:

Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Water Management Act: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: Not applicable

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state : Liquid.
- Colour : translucent
- Odour : Odourless
- Odour threshold : Not available (odourless).

pH-value

- pH : 8.0 ± 0.5 at 20 °C

Change of state

- Melting point: Not available
- Initial boiling point: > 100. °C at 760 mmHg

Density

- Vapour density: < 1 (lighter than air)
- Relative density: 1.01 at 20/4°C Relative water

Stability

- Decomposition temperature : Not available

Viscosity:

- Viscosity (flow time) : Not available

Volatility:

- Evaporation rate : Not available (lack of data).
- Vapour pressure : 17.5 mmHg at 20°C
- Vapour pressure : 12.3 kPa at 50°C

Solubility(ies)

- Solubility in water : Miscible
- Solubility in oils and fats: Not Applicable (inorganic product)
- Partition coefficient: n-octanol/Water Not Applicable (inorganic product)

Flammability:

- Flash point : Not flammable
- Autoignition temperature : Not applicable (do not support combustion).

Explosive properties:

Not available.

Oxidizing properties:

Not classified as oxidizing product.

9.2 OTHER INFORMATION:

- Solids : 1 % Weight

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:

Corrosivity to metals: It is not corrosive to metals.

Pyrophorical properties: It is not pyrophoric.

10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis.

10.4 CONDITIONS TO AVOID:

Heat: Keep away from sources of heat

Light: Not applicable.

Air: The product is not affected by exposure to air but should not be left the containers open.

Pressure: Not applicable.

Shock: The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.

10.5 INCOMPATIBLE MATERIALS:

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

As consequence of thermal decomposition, hazardous products may be produced

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SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~2017/776 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations

for individual ingredients:

Not available

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
Inhalation: Not classified	ATE > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	CLP 3,1,3,6
<u>Skin:</u> Not classified	ATE > 2000 mg/kg -	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	CLP 3,1,3,6
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	CLP 1,2,5
<u>Ingestion:</u> Not classified	ATE > 5000 mg/kg -	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	CLP 3,1,3,6

CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Respiratory corrosion/irritation:</u> Not classified		-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).	CLP 1,2,6 3,8,3,4
<u>Skin corrosion/irritation:</u> Not classified		-	Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).	CLP 3,2,3,3
<u>Serious eye damage/irritation:</u> Not classified		-	Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).	CLP 3,3,3,3
<u>Respiratory sensitisation:</u> Not classified		-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	CLP 3,4,3,3
<u>Skin sensitisation:</u> Not classified		-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).	CLP 3,4,3,3

CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.

CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.

CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some component

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Aspiration hazard:</u> Not classified		-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	CLP 3,10,3,3

CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

SPECIFIC TARGET ORGANS TOX ICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:

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Carcinogenic effects: Is not considered as a carcinogenic product.

Genotoxicity: Is not considered as a mutagenic product.

Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child .

Effects via lactation: Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: Not available.

Short-term exposure: Not available.

Long-term or repeated exposure: Not available.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:

Dermal absorption: Not available.

Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:

Not available.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~286/2011 (CLP).

12.1 TOXICITY:

Acute toxicity in aquatic environment

for individual ingredients :

Not available

No observed effect concentration

Not available

Lowest observed effect concentration

Not available

12.2 PERSISTENCE AND DEGRADABILITY:

Not available.

12.3 BIOACCUMULATIVE POTENTIAL:

Not available.

12.4 MOBILITY IN SOIL:

Not available.

12.5 RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfil the PBT/vPvB criteria.

12.6 OTHER ADVERSE EFFECTS:

Ozone depletion potential: *Not dangerous for the ozone layer..*

Photochemical ozone creation potential: Not available..

Earth global warming potential: Not available.

Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC, Decision 2014/955/EC:

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, (in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Authorised landfill in accordance with local regulations.

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SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: Not applicable

14.2 UN PROPER SHIPPING NAME: Not applicable

14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:

14.4

Transport by road (ADR 2017) and

Transport by rail (RID 2017):

Not regulated

Transport by sea (IMDG 38-16):

Not regulated

Transport by air (ICAO/IATA 2017):

Not regulated

Transport by inland waterways (ADN):

Not regulated

14.5 ENVIRONMENTAL HAZARDS:

Not applicable (not classified as hazardous for the environment).

14.6 SPECIAL PRECAUTIONS FOR USER:

Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:

The regulations applicable to this product generally are listed throughout this material safety data sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Tactile warning of danger: Not applicable (the classification criteria are not met).

Child safety protection: Not applicable (the classification criteria are not met).

VOC information on the label:

Contains VOC max. 5 g/l - The limit value 2004/42/CE-IIA cat. a) for the product ready for use is VOC max. 40. g/l (2010).

OTHER REGULATIONS:

Control of the risks inherent in major accidents (Seveso III): See section 7.2

Other local legislations:

The receiver should verify the possible existence of local regulations applicable to the chemical

15.2 CHEMICAL SAFETY ASSESSMENT:

For this mixture has not been carried out a chemical safety assessment.

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SECTION 16 : OTHER INFORMATION

16.1 TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Not applicable.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Access to European Union Law, <http://eur-lex.europa.eu/>

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- DSD: Dangerous Substances Directive.
- DPD: Dangerous Preparations Directive.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- ELINCS: European List of Notified Chemical Substances.
- CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials).
- SVHC: Substances of Very High Concern.
- PBT: Persistent, bioaccumulable and toxic substances.
- vPvB: Very persistent and very bioaccumulable substances.
- VOC: Volatile Organic Compounds.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LD50: Lethal dose, 50 percent.
- LC50: Lethal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangerous goods by road.
- RID: Regulations concerning the international transport of dangerous goods by rail.
- IMDG: International Maritime code for Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.

MATERIAL SAFETY DATA SHEET REGULATIONS:

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 2015/830

HISTORY: Revision:

Version:1 30/10/2020
Version 2. 30/10/2022

Modifications with respect to the previous Material Safety Data Sheet:

The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.