

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1090	
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SECTION 1. Identification of the substance or mixture and of the company/enterprise

1.1. Product identifier

Code: **1090**
Description: **MARMORINO 2020**

1.2. Relevant identified uses of the substance or mixture and uses not recommended

Relevant uses: **Decorative wall coverings based on slaked lime plaster**

1.3. Safety datasheet supplier information

Company Name: **GIORGIO GRAESAN AND FRIENDS s.a.s.**
Address: **Via BERGAMO 24
20037 PADERNO DUGNANO
ITALY
Tel. 02/9903951
Fax. 02/99039590**

the e-mail address of the competent person responsible for the safety datasheet is **tecnico@giorgiograesan.it**

1.4. Emergency telephone number

Phone number: **02/99039541 from Monday to Friday 8.30-12.30/14.00-18.00**

SECTION 2. Hazard identification.

2.1. Classification of the substance or mixture.

Product definition: Mixture

Classification according to EC Regulation No. 1272/2008 (CLP/GHS):

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Irrit. 2: Skin irritation, Category 2, H315

This product is classified as hazardous according to regulation (EC) 1272/2008 and subsequent amendments.

See Section 16 for the complete text of the above-mentioned hazard indications.

For more detailed information on the effects on health and for symptoms, see Section 11.

2.2. Label elements according to Regulation no. 1272/2008.

Warning: Hazard

Hazard pictogram



Hazard indications

H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary statements

P264: Wash the parts of the body thoroughly that come into contact after handling

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

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

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P403+P233: Keep container tightly closed and store in a well ventilated place

P501: Dispose of contents/container in accordance with the regulations on hazardous waste, containers or container waste

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Substances contributing to classification: Calcium hydroxide
Further label elements: Not applicable

Safety datasheet available at: www.giorgiograesan.it

2.3. Other hazards.

The product does not meet the PTB/vPvB criteria

SECTION 3. Composition/information on ingredients.

3.1 Substances

Not applicable

3.2 Mixtures

Chemical description: mixture of hydraulic binders, lime, inert materials and additives

Components

Identification	Chemical name	Classification (EC REGULATION NO. 1272/2008)	Conc. [%]
CAS no: 1305-62-00 CE: 215-137-3 Index: not applicable Reach: 01:2119475151-45	Calcium hydroxide	Skin Irrit. 2; H315 Eye Dam. 1; H318	25 - <50%

SECTION 4. First aid measures.

4.1 Description of first aid measures:

Symptoms due to poisoning may appear after exposure, so if in doubt, seek medical advice following direct exposure to the chemical or persistent discomfort, showing the SDS of this product.

For inhalation:

Move the exposed individual from the area into fresh air and keep at rest. In case of lack of breathing or if breathing is irregular or stopped, give artificial respiration or have oxygen administered by trained personnel.

For skin contact:

Remove clothes and contaminated shoes, rinse skin or shower the individual involved; if necessary, use plenty of cold water and mild soap. In case of severe intoxication, call a doctor. If the mixture causes burns or freezing, do not remove clothes because it could make the injury worse if they have stuck to the skin. If blisters form, they should not be burst for any reason because of the increased risk of infection.

For eye contact:

Rinse eyes with plenty of water at room temperature for at least 15 minutes. Prevent the patient from rubbing or closing their eyes. If the individual is wearing contact lenses, they should be removed provided that they are not stuck to the eyes which could cause further damage. In all cases, after washing, you should contact a doctor as quickly as possible, showing the product safety data sheet.

For ingestion/aspiration:

Do not induce vomiting. If vomiting occurs naturally, keep the head tilted forward to prevent aspiration. Keep the patient at rest. Rinse the mouth and throat which may have been damaged by ingestion.

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

The acute and delayed effects are indicated in sections 2 and 11.

4.3. Indication of any need for immediate medical attention and special treatments.

Immediately call a doctor. Induce vomiting only on medical advice. Do not give anything by mouth if the individual is unconscious and if not authorised by the doctor.

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SECTION 5. Fire-fighting measures.

5.1. Extinguishing media.

Non-flammable product under normal conditions of storage, handling and use. In case of fire following handling, storage or improper use

SUITABLE EXTINGUISHING MEDIA: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a full water jet

5.2. Special hazards arising from the substance or mixture.

Avoid breathing in combustion products. Heat causes increased pressure and an explosion hazard.

5.3. Recommendations for fire extinguishers.

GENERAL INFORMATION

Cool containers with water jets to prevent decomposition of the product and the development of substances that are potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water that must not be discharged into the sewers. Dispose of contaminated water used for extinguishing and fire residue according to current regulations.

EQUIPMENT

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame retardant overalls (EN469), flame retardant gloves (EN 659) and fire boots (HO A29 or A30).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and procedures in case of emergency.

Avoid the formation of dust by spraying the product with water if there are no contraindications. Avoid breathing in dust. If fumes or dust are dispersed in the air, put on suitable protective equipment to prevent contamination of the skin, eyes and personal clothing. These indications are valid for both workers and emergency interventions.

6.2. Environmental precautions.

Product not classified as hazardous to the environment. Keep away from drains, surface waters and groundwater

6.3. Methods and materials for containment and cleansing.

Contain with earth or non-sparking inert material. Collect most of the material with recovery containers and proceed with disposal. Discard the residue with water jets if there are no contraindications. Provide sufficient ventilation of the site affected by the leak. Check for incompatibilities with the container material in Section 7. The disposal of contaminated material must be carried out in accordance with the provisions of section 13.

6.4. Reference to other sections.

Any information regarding personal protection and disposal is set out in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Comply with the existing legislation on the prevention of risks at work.

Handle the product after consulting all other sections of this safety datasheet. Keep containers tightly closed and avoid dispersion of the product into the environment. Maintain order and cleanliness where dangerous products are handled.

Due to its flammability characteristics, the product does not present a risk of fire under normal conditions of storage, handling and use.

Do not eat, drink or smoke during handling and take care to wash with suitable products.

Absorbent material is recommended near the product.

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in clearly labelled containers. Store containers away from any incompatible materials, checking section 10.

Keep the containers sealed in suitable environments at a temperature between +5°C and +30°C.

Avoid sources of heat, radiation, static electricity and contact with food.

7.3. Particular end uses.

Not available

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SECTION 8. Exposure control/personal protection.

8.1. Control parameters.

Substances whose occupational exposure limit values must be controlled in the workplace (Italian Legislative Decree 81/2008 and subsequent amendments and additions)

There are no occupational exposure limits for the substances constituting the mixture.

DNEL (workers)

Identification		Short-term exposure		Long-term exposure	
		Systemic	Local	Systemic	Local
Calcium hydroxide CAS No: 1305-62-0 EC: 215-137-3	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Skin	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	4 mg/m ³	Not applicable	1 mg/m ³

DNEL (population)

Identification		Short-term exposure		Long-term exposure	
		Systemic	Local	Systemic	Local
Calcium hydroxide CAS No: 1305-62-0 EC: 215-137-3	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Skin	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	4 mg/m ³	Not applicable	1 mg/m ³

PNEC

Identification					
Calcium hydroxide CAS No: 1305-62-0 EC: 215-137-3	STP	3 mg/L	Fresh water	0.49 mg/L	
	Soil	1080 mg/kg	Sea water	0.32 mg/L	
	Intermittent	0.49 mg/L	Sediment (fresh water)	Not applicable	
	Oral	Not applicable	Sediment (seawater)	Not applicable	

8.2. Exposure control.

General security and hygiene measures in the workplace.

As a preventive measure it is recommended to use basic Personal Protective Equipment with the corresponding "CE marking". For more information on Personal Protective Equipment (storage, use, protection class, etc.) consult the information leaflet provided by the manufacturer of the PPE. The information in this section refers to the pure product. The protection measures for the diluted product may vary depending on the level of dilution, use, method of application, etc. To determine the obligation for the installation of emergency showers and/or eyewash stations in warehouses, legislation concerning storage of the chemical products applicable to each case shall be considered. For more information see sections 7.1 and 7.2.



Respiratory protection

If the limit value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a type A filter mask whose class (1, 2 or 3) should be selected in relation to the limit concentration of use. (ref. EN 14387). If there are gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of respiratory protective equipment is necessary if the technical measures taken are not sufficient to limit the worker's exposure to the limit values taken into account. However, the protection offered by masks is limited.



If the substance in question is odourless or its olfactory limit exceeds the relevant TLV-TWA and in case of an emergency, wear an open-circuit compressed air breathing apparatus (ref. EN 137) or fresh air breathing apparatus (ref. EN 138). Refer to EN 529 for the correct choice of respiratory equipment

Specific hands protection



Pictogram	PPE	Marked	ECN standards	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace gloves at first sign of deterioration. For periods of prolonged exposure to the product by professional/industrial users, the use of CE III gloves is recommended in accordance with EN 420 and EN 374.

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Specific eyes protection

Pictogram	PPE	Marked	ECN standards	Remarks
 Mandatory face protection	Full-vision safety goggles to protect against splashes and/or projections		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use is recommended if there is a risk of splashing.

Specific body protection

Pictogram	PPE	Marked	ECN standards	Remarks
	Work clothing			Replace at the first sign of deterioration. For periods of prolonged exposure by professional / industrial users, CE III is recommended, according to EN ISO 6529: 2001, EN ISO 6530: 2005, EN ISO 13688: 2013, EN 464: 1994
	Non-slip work shoes		EN ISO 20347:2012	Replace at the first sign of deterioration. For periods of prolonged exposure by professional / industrial users, CE III is recommended, according to EN ISO 20345 and EN 13832-1

Additional measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls.

Emissions from production processes, including those from ventilation equipment, should be controlled to ensure compliance with the environmental protection legislation. It is advisable to avoid releasing the product and its containers into the environment.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Physical state	Dense paste
Colour	Not applicable
Odour	Faint characteristic odour
Olfactory threshold.	Not applicable.
pH.	12.5+/-0.2
Melting or freezing point.	0°C.
Initial boiling point.	>100 ° C.
Boiling range.	Not applicable.
Flash point.	Non-flammable (water-based).
Evaporation rate	Not applicable.
Flammability of solids and gases	Non-flammable (water-based)
Lower flammability limit.	Not applicable
Upper flammability limit.	Not applicable
Lower explosive limit.	Not applicable
Upper explosive limit.	Not applicable
Vapour pressure.	Not applicable
Vapour Density	Not applicable
Relative density.	1.68+/-0.01 Kg/l at 20°C
Solubility	Not applicable
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature.	Not applicable
Decomposition temperature.	580°.
Viscosity	100000-130000 mPa.s. (Brookfield, probe no. 7, 20 rpm, 20 °C
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2. Other information.

Dry residue:	0
VOC (Directive 2004/42/EC):	0
VOC (volatile carbon):	0

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SECTION 10. Stability and reactivity.

10.1. Reactivity.

No hazardous reaction if the following chemical storage technical instructions are respected, see section 7.

10.2. Chemical stability.

The product is stable under normal handling, use and storage conditions.

10.3. Possibility of dangerous reactions.

No dangerous reaction expected due to temperature and/or pressure variation.

10.4. Conditions to avoid.

Minimise exposure to air and moisture to avoid degradation.

Shocks and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5. Incompatible materials.

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Not applicable

10.6. Hazardous decomposition products.

See points 10.3, 10.4 and 10.5 to find out about specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemicals, carbon dioxide (CO₂), carbon monoxide and other organic compounds may be released as a result of the decomposition.

SECTION 11. Toxicological information.

11.1 Information on toxicological effects:

There are no experimental data for the product on the toxicological properties

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for ingestion. For more information see section 3.
- Corrosivity/Irritability: Ingestion of a large does may cause throat irritation, stomach pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Causes irritation of the respiratory tract, generally reversible and localised in the upper respiratory tract.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Causes skin inflammation.
- Contact with the eyes: causes serious eye damages with contact.

D- Germ cell mutagenicity, carcinogenicity, toxicity to reproduction:

- Carcinogenicity: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for the effects described. For more information see section 3.

IARC: Not applicable

- Mutagenicity: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for this effect. For more information, see section 3.

- Toxicity to reproduction: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for this effect. For more information, see section 3.

E- Respiratory/skin sensitisation:

- Respiratory: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for sensitising effects. For more information see section 3.

- Cutaneous: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for this effect. For more information, see section 3.

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F- Specific target organ toxicity (STOT) — single exposure:

Causes irritation of the respiratory tract, generally reversible and localised in the upper respiratory tract.

G- Specific target organ toxicity (STOT) - repeated exposure:

- Specific target organ toxicity (STOT) - repeated exposure: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for this effect. For more information, see section 3.

- Skin: Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for this effect. For more information, see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria have not been met, since it does not contain substances classified as hazardous for this effect. For more information, see section 3.

Other information:

Not applicable

Specific toxicological information of substances:

Identification	Acute toxicity		Genre
Calcium hydroxide	LD50 oral	7340 mg/kg	Rat
CAS:1305-62-0	DL50 dermal	Not applicable	
EC: 215-137-3	LC50 inhalation	Not applicable	

Acute toxicity estimate (ATE mix):

Identification	Acute toxicity		Genre
Calcium hydroxide	LD50 oral	7340 mg/kg	Rat
CAS:1305-62-0	DL50 dermal	Not applicable	
EC: 215-137-3	LC50 inhalation	Not applicable	

SECTION 12. Ecological information.

There is no available data concerning the mix

12.1 Toxicity

Identification	Acute toxicity		Species	Genre
Calcium hydroxide	CL50	160 mg/L (96 h)	Gambusia affinis	Fish
CAS No: 1305-62-0	EC50	Not applicable		
EC: 215-137-3	EC50	Not applicable		

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 assessment:

The product does not meet the PBT/vPvB criteria

12.6 Other adverse effects:

Not described

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SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Waste generation should be avoided or minimised where possible. Disposal of this product, solutions and any by-products must always be carried out in accordance with the environmental protection and waste disposal law and respecting the requirements of each relevant local authority. Disposal must be entrusted to a company authorised to manage waste, in compliance with national and possibly local legislation. Absolutely avoid dispersing the product in the soil, sewers or waterways.

Contaminated packaging must be sent for recovery or disposal in accordance with the national waste management rules. Care should be taken when handling empty containers that have not been cleaned or rinsed.

SECTION 14. Transport information.

The product should not be considered dangerous under the provisions in force concerning the transportation of dangerous goods by road (A.D.R.), rail (RID), sea (IMDG Code) and air (IATA).

14.1 UN Number

Unregulated

14.2 UN proper shipping name

Unregulated

14.3 Transport hazard classes

Unregulated

14.4 Packing group

Unregulated

14.5 Environmental hazards

Unregulated

MARINE POLLUTANT: NO

14.6 Special precautions for users

None in particular.

14.7 Carriage of bulk according to Annex II of MARPOL 73/78 and IBC code

Unregulated

SECTION 15. Regulatory information.

15.1 Specific health, safety and environmental laws and regulations for the substance or mixture:

Regulation (EC) 528/2012: Not applicable.

Candidate substances for authorisation pursuant to Regulation (EC) No. 1907/2006 (REACH): Not applicable

Substances included in Annex XIV of REACH (authorisation list) and sunset date: Not applicable

Regulation (EC) 1005/2009 about substances that deplete the ozone layer: Not applicable

Article 95 REGULATION (EU) No. 528/2012: Calcium hydroxide (Product type 2, 3)

REGULATION (EU) No. 649/2012, in relation to the import and export of hazardous chemical products: Not applicable

Seveso III:

Not applicable

Restrictions on the marketing and use of certain dangerous substances and mixtures (Annex XVII REACH, etc.):

Not applicable

Special provisions concerning persons or the environment:

The information in this safety data sheet should be used as input data in a risk assessment of local circumstances with the aim of establishing the necessary risk prevention measures for the handling, use, storage and the elimination of the product in question.

Other legislations:

Italian Legislative Decree 205/2010: Implementing provisions of Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 relating to waste and repealing certain directives.

Italian Legislative Decree 126/1998: Regulation containing rules for the implementation of Directive 94/9/EC concerning equipment and protective systems intended for use in potentially explosive atmospheres.

Italian Legislative Decree 233/2003: Implementation of Directive 1999/92/EC on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

Italian Legislative Decree 186/2011: Penalty rules for violation of the provisions of Regulation (EC) no. 1272/2008

G.U. 14 March 2016 no. 61 - Italian Leg. Decree 15 February 2016, no. 39 Consolidated text on health and safety at work - Rev. June 2016

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15.2. Chemical safety assessment.

No chemical safety assessment has been prepared for the mixture or for the substances contained therein.

SECTION 16. Other information.

This safety datasheet has been drawn up in accordance with Annex II-Guide for the development of Safety Datasheets of Regulation (EC) No. 1907/2006 (Regulation (EU) No. 2015/830).

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H318: Causes serious eye damage

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components that appear in section 3

Regulation No. 1272/2008 (CLP):

Eye Dam. 1: H318 - Causes serious eye damage

Skin Irrit. 2: H315 - Causes skin irritation

Classification procedure:

Skin Irrit. 2: Calculation method

Eye Dam. 1: Calculation method

Training tips:

Minimum occupational risk prevention training is recommended for personnel handling this product in order to facilitate the understanding and interpretation of this safety datasheet as well as for product labelling.

Main sources of literature:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Key

- ADR: European agreement on the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service Number
- EC50: Effective concentration in 50% of the tested population
- EC NUMBER: Identification number in ESIS (European chemical substances information system)
- CLP: Regulation EC 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Globally harmonised system of classification and labelling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Inhibitory concentration of 50% of the tested population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organisation
- INDEX NUMBER: Identification number in Annex VI of CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure limit
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Permissible exposure limit
- PNEC: Predicted no effect concentration
- REACH: Regulation EC 1907/2006
- RID: Regulations for the international carriage of dangerous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded at any time during working exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany).

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GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and subsequent amendments
2. Directive 67/548/EEC and subsequent amendments
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)
8. Regulation (EC) 618/2012 of the European Parliament (III Atp. CLP)
9. The Merck Index. Ed. 10
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
15. ECHA Agency Website

Note to the user:

The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document must not be construed as warranting any specific property of the product.

As use of the product does not fall under our direct control, it is the user's responsibility to comply with the laws and regulations in force regarding hygiene and safety. No responsibility is assumed for improper use.

Provide adequate training to personnel involved in the use of chemicals.