Safety Information Sheet

This document must not be considered a safety data sheet according to art. 31 of Regulation (EC) no. 1907/2006 (REACH)

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	**GYPSUM IN PELLETS, SCREENED GYPSUM**
Chemical name	**CALCIUM SULFATE**
EC number	**231-900-3**
CAS number	**7778-18-9**
Registration Number	**01-2119444918-26-0141**
Molecular weight	**136,14 g/mol**
Chemical formula	**CaSO4**

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

Intended use	Grinded Anhydrite is used for self-levelling floors, plasters, panels and bricks for internal applications. Binding agents; Fertilisers; Fillers; Food/feedstuff additives; Intermediates; Laboratory chemicals, Pharmaceutical substance; pH-regulating agents; Process regulators, other than polymerisation or vulcanisation processes; Processing aid, not otherwise listed; Agents adsorbing and absorbing gases or liquids; Colouring agents, pigments; Complexing agents. Relevant identified uses The product is intended for industrial, professional, private use and for research, analysis and scientific education.
Uses advised against	Uses other than those indicated above

1.3. Details of the supplier of the safety data sheet

Name	**Fluorsid S.p.A.**
Full address	**2a Strada Macchiareddu**
District and Country	**09032 Assemini (CA)** **ITALY**
	tel. +39 070 246321
	fax +39 070 2463235
e-mail address of the competent person responsible for the Safety Data Sheet	msds.cagliari@fluorsid.com

1.4. Emergency telephone number

For urgent inquiries refer to
Company Emergency telephone number:
Fluorsid S.p.A.. Tel . +39 070 246321 (technical support - office hours)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).
Hazard classification and indication: --

2.2. Label elements

Hazard pictograms: --
Signal words: --
Hazard statements: --
Precautionary statements: --
This product is not subject to hazard labeling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.
Large quantities of dust may be produced during dry-state pulverization.

SECTION 3. Composition/information on ingredients

3.1. Substances

CALCIUM SULFATE
CAS 7778-18-9
CE 231-900-3
Nr. Reg. 01-2119444918-26-0141

Purity: ~97%

Classification 1272/2008 (CLP)
Not classified.

SECTION 4. First aid measures

4.1. Description of first aid measures

General notes
No adverse effects are expected during normal use of the substance, however if any effects do appear the following recommendations apply.

Following inhalation:
Following inhalation of large quantities of dust remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Following skin contact:
If some discomfort appears immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Following eye contact:
Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Following ingestion:
Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this informative sheet.

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

No episodes of damage to health ascribable to the product have been reported.

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

Advises are given in section 4.1; No special treatment needed.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. The extinguishing media can be chosen according to the surrounding fire.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.
On burning: release of toxic and corrosive gases/vapours (sulphur oxides).

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if powders are released into the air. Ventilate area of leak or spill. Wear appropriate personal protective equipment.
Avoid generation of dust. Special danger of slipping by leaking/spilling product.
These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

For containment
All containment for dry substances suitable.

For cleaning up
Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal

Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Protective measures:
No special provisions if the product is used appropriately.

Avoid:
Dust dispersion. Inhalation of dust/particles
Eye contact

Measures to prevent fire:

Product itself does not burn.
No special fire protection measures are necessary.

Measures to prevent aerosol and dust generation:
If technically possible use local exhaust ventilation.
Measures required to protect the environment:
No special provisions if the product is used appropriately

Advice on general occupational hygiene:
Do not to eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:
Keep/store only in original container.

Requirements for storage rooms and vessels:
None.

Hints on storage assembly:
None. Storage under cover, protected from the weathering and in particular moisture.
Store the product in closed containers in order to protect from moisture

Storage class:
Non-combustible solids.

Storage in accordance with the BREF: “Emission from storage”.

7.3. Specific end use(s)

No use other than as indicated in section 1.2 of this safety data sheet

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

Regulatory References:
TLV-ACGIH ACGIH 2020

CALCIUM SULFATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		10				INHAL

Predicted no-effect concentration - PNEC		
Normal value of STP microorganisms	100	mg/l

Aquatic: Not acutely toxic to fish, invertebrates, algae and microorganisms at the concentrations tested in the studies. Acute toxicity of calcium sulfate to fish, invertebrates, algae and microorganisms are generally greater than the highest concentrations tested and are greater than the maximum solubility of calcium sulfate in water.

Sediment: Not applicable due to ubiqutous nature of calcium and sulfate ions in the environment.

Soil: Not applicable due to ubiqutous nature of calcium and sulfate ions in the environment.

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	11,4 mg/kg bw/d	VND	1,52 mg/kg bw/d				
Inhalation	VND	3811 mg/m3	VND	5,29 mg/m3	VND	5082 mg/m3	VND	21,17 mg/m3

	Dust, respirable	
	Limit value - Eight hours	**Limit value - Short term**
	mg/m³	**mg/m³**
Austria	5	10
Belgium	3	
France	5 respirable aerosol	
Germany (AGS)	1,25 (1)(2)(3)(4)(5)	
Germany (DFG)	0,3 (1)	2,4 (1)(2)
Hungary	6	
Ireland	4	
Spain	3	
Sweden	5	
Switzerland	3	
USA - OSHA	5	

	Remarks	
Austria	STV 15 minutes average value	
France	Bold type: Restrictive statutory limit values	
Germany (AGS)	(1) Insoluble particulates (2) not applicable for ultra-fine dusts and dusts with specific toxicity (3) the limit value is a general upper limit for technical measures, as long as no specific regulations for toxic or carcinogenic substances are available (4) the limit value was derived for dusts with an average density of 2.5 mg/m³ (5) at work areas where all technical and further measures are state of the art but the LV is still not adhered	
Germany (DFG)	(1) For granular, bio-resistant dusts, except ultra-fine particles (2) 15 minutes average value	

Substance	**Dust, inhalable**

	Limit value - Eight hours	**Limit value - Short term**
	mg/m³	**mg/m³**
Austria	10	20
Belgium	10	
Denmark	10	20
France	10	
Germany (AGS)	10	20
Germany (DFG)	4	
Ireland	10	
Hungary	10	
Poland	10	
Spain	10	
Sweden	10	
Switzerland	10	
USA - OSHA	15	

Substance	**CALCIUM SULFATE**	
	Limit value - Eight hours	**Limit value - Short term**
	mg/m³	**mg/m³**
Austria	5 respirable aerosol	10 respirable aerosol
Belgium	10	
Germany (AGS)	6 respirable aerosol	
Germany (DFG)	4 inhalable aerosol	
	1,5 respirable aerosol	
Hungary	6 respirable aerosol	
Latvia	4	
Spain	10	
Switzerland	3 respirable aerosol	
USA - NIOSH	10 (1)	
	5 (2)	
	Remarks	
USA - NIOSH	(1) total dust (2) respirable aerosol	

Substance	**Dust, mineral, respirable**

	Limit value - Eight hours	Limit value - Short term
	mg/m³	mg/m³
Belgium	3	
Denmark	5	10

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.
When possible, install local aspirators and efficient system of total air replacement.
If these measures are not sufficient to keep the particle concentrations below the exposure limits, it will be necessary to use suitable respiratory protection apparatus.

HAND PROTECTION
In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).
Materials: Nitrile rubber, PVC.
Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
Use a type P2 filtering facemask (see standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid. Crystalline Powder
Colour	Colour varies white. beige. light yellow. grey or reddish tinge or brick red.
Odour	Odourless
Odour threshold	Not applicable - odorless
pH	In delivery state: not applicable In aqueous solution: < 11.5
Melting point / freezing point	1450°C
Initial boiling point / Boiling range	Not applicable based on physical state
Flash point	Not applicable based on physical state
Evaporation Rate	Not applicable based on physical state
Flammability of solids and gases	No-flammable (the substance is void of any chemical structures commonly associated with flammable properties)
Lower inflammability limit	No-flammable (the substance is void of any chemical structures commonly associated with flammable properties)
Upper inflammability limit	No-flammable (the substance is void of any chemical structures commonly associated with

	flammable properties)
Lower explosive limit	No-explosive (the substance is void of any chemical structures commonly associated with explosive properties)
Upper explosive limit	No-explosive (the substance is void of any chemical structures commonly associated with explosive properties)
Vapour pressure	Not applicable based on physical state
Vapour density	Not applicable based on physical state
Solubility	2 g/l (water)
Partition coefficient: n-octanol/water	Not applicable - Substance is inorganic.
Auto-ignition temperature	Not self-heating substance
Decomposition temperature	into CaSO4 ½ H2O and H2O at 140°C into CaSO4 and H2O at 700°C into CaO and SO3 at 1000°C
Viscosity	Not applicable based on physical state
Explosive properties	No-explosive (the substance is void of any chemical structures commonly associated with explosive properties)
Oxidising properties	No-oxidising properties (substance does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material)

9.2. Other information

None

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

It may release small amounts of hydrofluoric acid when in contact with hot sulfuric acid.

10.4. Conditions to avoid

Avoid environmental dust build-up.
Moisture.

10.5. Incompatible materials

No incompatible materials known.

10.6. Hazardous decomposition products

Decomposition takes place from temperatures above: 1450°C.Decomposition under formation of: Sulphur trioxide and calcium oxide.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ACUTE TOXICITY
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
Acute oral toxicity	LD50 > 2000 mg/kg bw	Rat.	OECD 420	

Acute dermal toxicity	n/a			No dermal toxicity envisaged due to low potential for absorption
Acute inhalative toxicity	LC50 > 2.61 mg/L	Rat	OECD 403	Maximum attainable dose

SKIN CORROSION / IRRITATION
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
Skin corrosion/irritation	n/a	Rabbit	OECD 404	Not irritating

SERIOUS EYE DAMAGE / IRRITATION
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
Serious eye damage/irritation	n/a	Rabbit	OECD 405	Not irritating

RESPIRATORY OR SKIN SENSITISATION
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
Respiratory or skin sensitization	n/a	Guinea pig	OECD 406	Not a skin sensitizer

GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
Germ cell mutagenicity	n/a	In vitro tests Mouse	OECD 471 OECD 476 OECD 474	Not mutagenic Not mutagenic

CARCINOGENICITY
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
Carcinogenicity	n/a			No risk of carcinogenicity posed by calcium sulphate

REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
Reproductive toxicity	NOAEL 790 mg/kg bw	Rat	OECD 422	No signs of reproductive toxicity observed

STOT - SINGLE EXPOSURE
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
STOT single exposure	n/a			No organ toxicity observed in acute tests

STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
STOT repeated exposure	n/a			It is considered to classify based on RCS content . STOT RE 2 (If calcium sulfate contains crystalline silica in respirable form >1 % - < 10 %.)

ASPIRATION HAZARD
Does not meet the classification criteria for this hazard class

Relevant hazard class	Effect dose	Species	Method	Remark
Aspiration hazard	n/a			No aspiration hazard envisaged

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Aquatic toxicity	Effect dose	Exposure time	Species	Method	Evaluation	Remark
Acute fish toxicity	LC50 >79mg/L	96 h	Japanese rice fish	OECD 203	Harmless to fish up to the tested concentration.	LIMIT-test
Acute daphnia toxicity	EC50 >79 mg/L	48 h	Daphnia magna	OECD 202	Harmless to daphnia up to the tested concentration.	LIMIT-test
Acute algae toxicity	E50 > 79 mg/L	72 h	Selenastrum capricornutum	OECD 201	Harmless to algae up to the concentration tested.	LIMIT-test
Toxicity to STP microoragnisms	EC 50 >790 mg/L	3 h	Activated sludge	OECD 209	Harmless to STP microorganisms	

After neutralisation, toxicity is no longer observed.

The product can hydrolyse into Calcium and Sulfate Ions.
The stated effect can be caused partly by the decomposition products.
The ecological data were measured on the hydrolysed product.

12.2. Persistence and degradability

Abiotic Degradation
Physical- and photo-chemical elimination:
The product hydrolyses quickly in the presence of water to:
Calcium and Sulfate Ions
The individual components are poorly eliminated from water.
No photo-chemical elimination.

Biodegradation:
The methods for determining the biological degradability are not applicable to inorganic substances.
Inorganic product which is not eliminable from water through biological cleaning processes.

12.3. Bioaccumulative potential

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
No indication to bioaccumulation potential.

The ecological data were measured on the hydrolysed product.
According to experiences this product is inert and not degradable biologically.

12.4. Mobility in soil

Water-soluble solid.
Natural constituent in soils.
If product enters soil, it will be mobile and may contaminate groundwater

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Other adverse effects

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as „dangerous for the environment“.
On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.
The information about ecology refer to the main components.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed by an authorised waste management enterprise in compliance with national and local regulations.
The legal responsible for disposal is the producer / holder of the waste.
Different EWC codes could be applied to this mixture according to the European Waste Catalogue based on the specific circumstances that generated the waste, possible alterations and / or possible contamination
Disposal through wastewater discharge is not permitted.
CONTAMINATED PACKAGING
Contaminated packaging, properly labeled, shall be sent to recovery or disposal in compliance with national waste management regulations and they shall be classified with the following EWC code:
15 01 01 : paper and cardboard packaging
15 01 02 : plastic packaging
15 01 03 : wooden packaging
15 01 04 : metallic packaging
15 01 05 : composite packaging
15 01 06 : mixed packaging
15 01 07 : glass packaging
15 01 09 : textile packaging

SECTION 14. Transport information

The 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
Not applicable

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
Not applicable

14.6. Special precautions for user
Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC:
None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
None

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Information not available

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following substance, without exposure scenarios (ref. art. 14.4 of REACH): ANHYDROUS CALCIUM SULFATE.

SECTION 16. Other information

The recipient of this SIS shall make sure of reading and understanding the information included by all people who handle, store, use, or otherwise come into contact in any way with the substance to which this SIS is referred to. In particular, the recipient shall provide adequate training to the personnel for the use of hazardous substances and/or mixtures. The recipient shall verify the suitability and completeness of the provided information according to the specific use of the substance.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 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
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for the recipient of the Safety Information Sheet (SIS):
The recipient of this SIS shall make sure of reading and understanding the information included by all people who handle, store, use, or otherwise come into contact in any way with the substance or mixture to which this SIS is referred to. In particular, the recipient shall provide adequate training to the personnel for the use of hazardous substances and/or mixtures. The recipient shall verify the suitability and completeness of the provided information according to the specific use of the substance or mixture. However, the substance or mixture referred to by this SIS shall not be used for uses other than those specified in Section 1. The Supplier don't assume responsibility for improper uses. Since the use of the product does not fall under the direct control of the Supplier, the user shall, under his own responsibility, fulfill national and EU regulations concerning health and safety.
The information included in this SIS are provided in good faith and are based on the current state of scientific and technical knowledge, at the revision date indicated, available to the Supplier indicated in Section 1 of this SIS. It shall not be meant that the SIS is a guarantee of any specific property of the substance or mixture. The information concern only to the substance or mixture specifically designated in Section 1 and it could not be valid for the substance or mixture used in combination with other materials or in any process not specified in the text. This version of the SIS substitutes all the previous versions.

Changes to previous review:
The following sections were modified:
01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.