

READY MIX ALUMINIUM

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IDENTIFICATION OF THE SUBSTANCE OR THE MIXTURE AND OF THE COMPANY OR THE UNDERTAKING.

1.1 Product identifier.

Product name:	READY MIX ALUMINIUM
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1.2 Relevant identified uses of the substance or mixture and uses advised against.

Decorative aluminium-effect coating.

Uses advised against:

Any use not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet.

Company:	SATINE FACTORY S.L
Address:	C/ Coure 16-24
Town:	12530 - Burriana
Province:	Castellón
Telephone:	964100100
Fax:	692100100
E-mail:	info@satine.es
Web:	www.satine.com

1.4 Emergency telephone number:

(Monday-Friday; 08:00-14:00) +34 692 100 100

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HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

The product is not classified as hazardous under Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations).

Classification of hazards and indications:

Physicochemical hazards: the product is not classified for this hazard class.

Health hazards: The product is not classified for this hazard class.

Environmental hazards: The product is not classified for this hazard class.

2.2 Label elements. Labelling according to Regulation (EC) No 1272/2008:

Hazard statements:

Hazard pictograms: --

Warnings: --

Statements of hazard:	--
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Precautionary statements: --

2.3 Other hazards.

According to the available data, the product does not contain PBT or vPvB substances in percentages $\geq 0.1\%$.

The product does not contain substances with endocrine-disrupting properties in concentrations $\geq 0.1\%$.

3 COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not applicable.

3.2 Mixtures.

Contains:

Identification	% concentration	Classification 1272/2008 (CLP)	Specific limits 1272/2008 (CLP)
Iron			
Index: - EC 231-096-4 CAS 7439-89-6 REACH Reg. 01-2119462838-24-XXXX	95 - 99	Substance not classified	Not applicable

4 FIRST AID MEASURES.

4.1 Description of first aid measures.

Not specifically required. In any case, compliance with good industrial hygiene practices is recommended.

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

There is no specific information on symptoms and effects caused by the product.

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

Treat symptomatically. Consult a doctor.

5 FIRE-FIGHTING MEASURES.

5.1 Fire-fighting

SUITABLE EXTINGUISHING MEDIA

The extinguishing media are the traditional ones: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA

None in particular.

5.2 Special hazards arising from the substance or mixture.

HAZARDS FROM EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products, predominantly iron compounds.

When the dust is dispersed in the air in sufficient concentrations and in the presence of an ignition source, it can form explosive mixtures with air. Fire may develop or be fanned by the solid, possibly leaked from the container, when it reaches high temperatures or through contact with ignition sources.

5.3 Advice for fire-fighters

GENERAL INFORMATION

Cool containers with water jets to prevent decomposition of the product and the development of substances potentially hazardous to health. Always wear full fire-protection equipment. Collect extinguishing water, which must not be discharged into the sewers. Dispose of contaminated water used for extinguishing and fire residues in accordance with current regulations.

EQUIPMENT

Normal fire-fighting clothing, such as respiratory equipment

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ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Adopt standard emergency-handling procedures in order to stop the leak and allow proper remediation of the environment in which the accident occurred.

In the case of vapours or dust dispersed in the air, use respiratory protection. These indications are valid for both workers and emergency response personnel.

6.2 Environmental precautions

Prevent the product from entering sewers, surface water and groundwater.

6.3 Methods and material for containment and cleaning up.

Contain with earth or inert material. Collect as much of the material as possible and remove the residues with jets of water. Disposal of the contaminated material must be carried out in accordance with section 13.

6.4 Reference to other sections

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

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HANDLING AND STORAGE.

7.1 Precautions for safe handling

Handle the product after consulting all the other sections of this safety data sheet. Avoid releasing the product into the environment. Do not eat, drink or smoke during use.

7.2 Conditions for safe storage, including any incompatibilities

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

Keep away from strong acids, bases and oxidising agents.

7.3 Specific end use(s)

There are no particular end uses other than the relevant uses identified in Section 1.2 of this safety data sheet.

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EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters

It is recommended to consider in the risk assessment process the occupational exposure limit values established by the ACGIH for inert dust not otherwise classified (PNOC respirable fraction: 3 mg/m³; PNOC inhalable fraction: 10 mg/m³).

If these limits are exceeded, we recommend using a type P filter, whose class (1, 2 or 3) must be chosen according to the result of the risk assessment.

The product does not contain substances for which Community workplace exposure limits (OEL) exist that require declaration in this Section.

Iron

Health - Derived No Effect Level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0.71 mg/kg body weight/day				
Inhalation			1,5 mg/kg				3 mg/m ³	

8.2 Exposure controls

Observe the usual safety measures when handling chemical products.

HAND PROTECTION

Protect your hands with category III work gloves, type C (ref. standard EN 374).

For the final choice of work glove material, the process of use of the product and any additional products resulting from it must also be assessed. Also remember that latex gloves may cause sensitisation phenomena.

SKIN PROTECTION

Wear long-sleeved work clothing and professional-use safety footwear, category III (ref. Reg. (EU) 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is advisable to wear protective goggles, preferably airtight (ref. standard EN 166).

If there is a risk of exposure to splashes or sprays in relation to the work carried out, adequate protection of the mucous membranes (mouth, nose, eyes) must be provided to prevent accidental absorption.

RESPIRATORY PROTECTION

We recommend the use of a type P filtering mask, whose class (1, 2 or 3) and actual need must be defined according to the result of the risk assessment (ref. standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, must be controlled in order to comply with environmental protection legislation.

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PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Property	Value	Information
Physical state	Powder	
Colour	Grey	
Odour	Odourless	
Melting/freezing point	Not available	
Initial boiling point	Not available	
Flammability	Not available	
Lower explosive limit	Not applicable	The product is a solid.
Upper explosive limit	Not applicable	The product is a solid.
Flash point	Not applicable	The product is a solid.
Auto-ignition temperature	Not applicable	The product is a solid.
Decomposition temperature	Not available	
pH	Not available	
Kinematic viscosity	Not applicable	The product is a solid.
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	

Density and/or relative density

Mixture name	Apparent density	Mixture name	Apparent density
MT 850/3.5	3.50 ± 0.20	RI 106/3.8	3.80 ± 0.20
MT 750/3.6	3.60 ± 0.20	RI 63/3.2	3.20 ± 0.30
MT 500/3.6	3.65 ± 0.20	RI 64/3.2	3.20 ± 0.30
MT 500/3.2	3.20 ± 0.20	RI 66/3.2	3.20 ± 0.30
MT 300/3.7	3.70 ± 0.20	RI 65/3.2	2.75 ± 0.75
MT 300/3.5	3.50 ± 0.20	MT 425/3.0	3.00 ± 0.20
MT 212/3.7	3.70 ± 0.20	MT 425/3.7	3.70 ± 0.20
MT 212/3.3	3.40 ± 0.20	MT 425/3.7C	3.70 ± 0.20
MT 250/3.1	3.10 ± 0.15	RI 600/3.0	3.00 ± 0.20
MT 150/3.7	3.70 ± 0.20	RI 425/3.0	3.00 ± 0.20
MT 150/3.3	3.30 ± 0.30	RI 425/3.7	3.70 ± 0.10
MT 150/3.7	3.70 ± 0.20	RI 212/2.9	2.90 ± 0.10
FERACER	3.20 maximum	RI 180/2.6	2.65 ± 0.05
MT 106/3.4	3.60 ± 0.20	RI 180/2.8	2.80 ± 0.10
MT 106/3.7	3.60 ± 0.20	RI 180/3.0	3.00 ± 0.05
MT 106/3.8	3.80 ± 0.20	RI 180/3.0SC	3.05 ± 0.05
MT 106/3.7	3.70 ± 0.20	RI 212/2.9	2.90 ± 0.10
MT 75/3.6	3.70 ± 0.20	P45	3.15 ± 0.05
MT 63/3.4	3.60 ± 0.20	P60	3.15 ± 0.05
RI 850/3.5	3.40 ± 0.20	ST 0,85	2.95 - 3.15
RI 500/3.6	3.60 ± 0.20	ST 0	3.00 - 3.15
RI 300/3.7	3.70 ± 0.20	110	3.15 ± 0.15
RI 212/3.4	3.40 ± 0.20	119	3.05 ± 0.10
RI 212/3.7	3.65 ± 0.15	128	3.25 ± 0.10
RI 150/3.4	3.40 ± 0.20	138	3.10 ± 0.15
RI 106/3.2	3.20 ± 0.20	143	3.00 ± 0.15
RI 106/3.4	3.40 ± 0.20	150	2.95 - 3.15

Relative vapour density

Not applicable

The product is a solid.

Particle characteristics.

See the table below

Particle size distribution	MT 850/3,5	MT 750/3.6	MT 500/3.6	MT 500/3.2	MT 300/3.7	MT 300/3,5	MT 212/3.7	MT 212/3.3
Particle size	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen
> 1000 microns	0	0						
850 microns	10 maximum							
710 microns			0					
600 microns				0				
500 microns			15 maximum	10 maximum	0			
425 microns						0		
300 microns	95 minimum				15 maximum			
250 microns						5 maximum	0	0
212 µm							5 maximum	5 maximum
150 microns			95 minimum	85 minimum	80 minimum	75 minimum		
106 microns		90 minimum						
45 microns							65 - 87	60 - 85

Particle size distribution	MT 250/3.1	MT 150/3.7	MT 150/3.3	MT 150/3.7	FERACER	MT 106/3.4	MT 106/3.7	MT 106/3.8	MT 106/3.7	MT 75/3.6	MT 63/3.4
Particle size	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen
> 250 microns	0	0				0					
212 µm							0				
180 microns								0			
150 microns	12 max.	15 max.	1 max.	1 max.	1 max.				0	0	0
106 microns	10 - 28				15 max.	10 max.	15 max.	20 max.	10 max.		
75 microns	11 - 32									15 max.	
63 microns											20 max.
45 microns	16 - 36	90 min.	55 - 75	55 - 75	75 max.	20 - 55	75 - 95	75 - 95	40 - 70	25 - 45	5 - 45

Particle size distribution	RE 850/3,5	RI 500/3.6	RI 300/3.7	RI 212/3.4	RI 212/3.7	RI 150/3.4	RI 106/3.2	RI 106/3.4	RI 106/3.8	RI 63/3.2	RI 64/3.2	RI 66/3.2	RI 65/3.2
Particle size	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen
													D50 < 50 µm
> 1000 microns	0												
850 microns	10 max.	0											
500 microns		15 max.	0										
300 microns	95 min.		15 max.										
250 microns				0	0								
212 µm		70 min.		5 max.		0	0	0					
180 µm									0				
150 microns			80 min.		5 max.	1 max.				0	0	0	
106 microns							10 max.	10 max.	15 max.				
63 microns					95 min.					20 max.	10 max.	5 max.	0
45 microns				60 - 85		45 - 85	80 - 90	50 - 75	75 - 95	15 - 45	20 - 45	15 - 45	

Particle size distribution	MT 425/3.0,	MT 425/3.7,	MT 425/3,7 C,	RI 600/3.0,	RI 425/3.0,	RI 425/3.7,	RI 212/2.9
Particle size	% semen	% semen	% semen	% semen	% semen	% semen	% semen
> 710 microns				0			
600 microns	0	0	0	5 maximum	0	0	
425 microns	5 maximum	5 maximum	5 maximum		5 maximum	5 maximum	
300 microns							0
150 microns							15 maximum
125 microns				75 minimum			
63 microns	85 minimum	85 minimum	80 minimum	95 minimum	85 minimum	85 minimum	65 - 75

Particle size distribution	RI 180/2.6	RI 180/2.8	RI 180/3.0	RI 180/3.0SC	RI 212/2.9	P45	P60	ST 0,85	ST 0
Particle size	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen	% semen
> 250 microns	0	0	0	0	0	0	0		0
212 microns				1 maximum	3 maximum			1 maximum	1 maximum
150 microns	10 maximum	10 maximum	12 maximum	12 maximum	15 maximum			15 maximum	20 maximum
106 - 150 microns	20 - 32		16 - 28						
75 - 106 microns	25 - 35	60mzx	17 - 25						
45 - 75 microns	25 - 34	70 - 85	24 - 33						
45 microns				75 - 85	80 - 90			70 - 85	75 - 85
< 45 microns	12 - 27		16 - 28						

Particle size distribution	SA	HSC	HSS	S.S
Particle size	% semen	% semen	% semen	% semen
> 200 microns	0			
150 microns	1 maximum	0	0	
106 microns	10 maximum	5 maximum	1 maximum	
100 microns				0
75 microns			10 maximum	
63 microns				
45 microns	25 - 65	15 - 65	15 - 65	
40 microns				20 maximum
20 microns				80 maximum

9.2 Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

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STABILITY AND REACTIVITY

10.1 Reactivity

There are no particular reaction hazards with other substances under normal conditions of use.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions.

The dust is potentially explosive when mixed with air.

10.4 Conditions to avoid

Avoid dust accumulation in the environment.

10.5 Incompatible materials

Strong acids, bases and oxidising agents.

10.6 Decomposition products

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TOXICOLOGICAL INFORMATION

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

No incidents of harm to health due to exposure to the product are known. In any case, it is recommended to operate in compliance with good industrial hygiene practices.

Metabolism, kinetics, mechanism of action and other information.

Information not available

Information on likely routes of exposure.

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

According to the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

ATE (Inhalation) of the mixture:	Not classified (no relevant component)
ATE (Oral) of the mixture:	Not classified (no relevant component)
ATE (Dermal) of the mixture:	Not classified (no relevant component)

Iron

LD50 (oral):	7500 mg/kg Rat
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SKIN CORROSION / IRRITATION

According to the available data and considering the classification criteria provided in table 3.2.3 of Annex I of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

SERIOUS EYE DAMAGE/IRRITATION

According to the available data and considering the classification criteria provided in table 3.3.3 of Annex I of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class

RESPIRATORY OR SKIN SENSITISATION

According to the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

GERM CELL MUTAGENICITY

According to the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

CARCINOGENICITY

According to the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

REPRODUCTIVE TOXICITY

According to the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

According to the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

According to the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

ASPIRATION HAZARD

Based on the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and subsequent amendments, the product is not classified for this hazard class.

11.2 Information on other hazards

According to the available data, the product does not contain substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

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ECOLOGICAL INFORMATION

12.1 Toxicity

Based on the assessment of the classification of the components and the classification provisions of Annex I, Part 4 of Reg. (EC) 1272/2008 and subsequent amendments, the mixture is not classified as hazardous to the environment.

Use according to good working practices, avoiding releasing the product into the environment. Notify the competent authorities if the product has reached watercourses or has contaminated the soil or vegetation.

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

According to the available data, the product does not contain PBT or vPvB substances in percentages $\geq 0.1\%$.

12.6 Endocrine disrupting properties

According to the available data, the product does not contain substances included in the main European lists of potential or suspected endocrine disruptors with effects on the environment under evaluation.

12.7 Other adverse effects

Information not available

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DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods.

Reuse if possible. Product residues as such are considered non-hazardous special waste.

Disposal must be entrusted to an authorised waste management company, in compliance with national and, where applicable, local regulations.

For solid waste, consider the possibility of disposal in an authorised landfill.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

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TRANSPORT INFORMATION

The product is not to be considered hazardous under current provisions concerning the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments

Information not relevant

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REGULATORY INFORMATION

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

Seveso category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances according to Annex XVII of Regulation (EC) 1907/2006

None

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances on the Candidate List (Art. 59 REACH)

According to the available data, the product does not contain SVHC substances in percentages $\geq 0.1\%$.

Substances subject to authorisation (Annex XIV REACH)

None

Biocides Regulation (Reg. (EU) 528/2012):

Not applicable

Detergents Regulation (Reg. (EC) 648/2004):

Not applicable

Dir. 2004/42/EC - VOC / Legislative Decree 161/2006:

Not applicable

Substances subject to export notification requirements, Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health checks

Information not available

Classification of water pollution in Germany (AwsV, of 18 April 2017)

WGK 1: Slightly hazardous to water

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for the following contained substances:

Iron

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OTHER INFORMATION

LEGEND:

- **ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road
- **CAS:** Chemical Abstracts Service number
- **EC:** Identification number in ESIS (European archive of existing substances)
- **CLP:** Regulation (EC) 1272/2008
- **DNEL:** Derived no-effect level
- **EC50:** Concentration giving an effect in 50% of the population tested.
- **EmS:** Emergency schedule
- **GHS:** Globally Harmonised System of Classification and Labelling of Chemicals
- **IATA DGR:** Dangerous Goods Regulations of the International Air Transport Association - **IC50:** Immobilisation concentration for 50% of the population tested.
- **IMDG:** International Maritime Dangerous Goods Code
- **IMO:** International Maritime Organization
- **INDEX:** Identification 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:** Predicted exposure level
- **PNEC:** Predicted no-effect concentration
- **REACH:** Regulation (EC) 1907/2006
- **RID:** Regulations concerning the International Carriage of Dangerous Goods by Rail
- **ATE:** Acute toxicity estimate
- **TLV:** Threshold limit value
- **TLV CEILING:** Concentration that must not be exceeded at any time during occupational exposure.
- **TWA:** Time-weighted average exposure limit
- **TWA STEL:** Short-term exposure limit
- **VOC:** Volatile organic compound
- **vPvB:** Very persistent and very bioaccumulative according to REACH
- **WGK:** Water hazard class (Germany).
- **A1** = confirmed human carcinogen.
- **A2** = suspected human carcinogen.
- **A3** = confirmed animal carcinogen with unknown relevance to humans.

- A4 = not classifiable as a human carcinogen.
- A5 = not suspected to be a human carcinogen.
- BEI = Substance with Biological Exposure Index.

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 to 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)

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 Agency website

Database of SDS models for chemical substances - Ministry of Health and Istituto Superiore di Sanità

CALCULATION METHODS

Physico-chemical hazards: the hazard was derived from the classification criteria of the CLP Regulation, Annex I, Part 2 and subsequent amendments.

Health hazards were assessed using the calculation method provided in Regulation (EC) 1272/2008 (CLP) and subsequent amendments for the classification of mixtures when data are available on all or some of the components of the mixture:

Acute Tox: application of criteria, Table 3.1.1, Annex I, Part 3 of the CLP Regulation and subsequent amendments

Skin Corr. 1A/1B/1C H314: application of the criteria of the additivity formula, Table 3.2.3, Annex I, Part 3 of the CLP Regulation

Skin Irrit 2 H315: application of the criteria of the additivity formula, Table 3.2.3, Annex I, Part 3 of the CLP Regulation

Eye Dam 1 H318: application of the criteria of the additivity formula, Table 3.3.3, Annex I, Part 3 of the CLP Regulation

Eye Irrit. 2 H319: application of the criteria of the additivity formula, Table 3.3.3, Annex I, Part 3 of the CLP Regulation Eye Irrit. 2 H319: table 3.3.3 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) and subsequent amendments

Skin Sens 1A/1B/1 H317 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) and subsequent amendments

Resp Sens 1A/1B/1 H334 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) and subsequent amendments

Muta. 1A/1B, 2 H340 - H341: table 3.5.2, Annex I, Part 3 of the CLP Regulation and subsequent amendments

Carc 1A/1B, 2 H350 - H351: table 3.6.2, Annex I, Part 3 of the CLP Regulation and subsequent amendments

Repr 1A/1B, 2 H360 - H361: table 3.7.2, Annex I, Part 3 of the CLP Regulation and subsequent amendments

STOT SE 1, 2 H370 - 371: application of calculation methods - table 3.8.3 of Annex I, Part 3 of Reg. (EC)

1272/2008 (CLP) and subsequent amendments

STOT SE 3 H336: chap. 3.8.3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) and subsequent amendments

STOT RE 1, 2 H372 - H373: table 3.9.4, Annex I, Part 3 of the CLP Regulation and subsequent amendments

Asp Tox 1 H304: application of the criteria 3.10, Annex I, Part 3 of the CLP Regulation and subsequent amendments
Environmental hazards were assessed using the calculation method provided in Regulation (EC) 1272/2008 (CLP) and subsequent amendments for the classification of mixtures when data are available on all or some of the components of the mixture:

aquatic environmental toxicity, acute effects: table 4.1.1 of Annex I, Part 4 of Regulation (EC) 1272/2008 (CLP) and subsequent amendments;

aquatic environmental toxicity, chronic effects: table 4.1.2 of Annex I, Part 4 of Regulation (EC) 1272/2008 (CLP) and subsequent amendments

Note for the user:

The information contained in this sheet is based on our knowledge available 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 interpreted as a guarantee of any specific property of the product.

Since the use of the product is not under our direct control, it is the user's obligation to observe the laws and regulations in force on hygiene and safety under their own responsibility. We accept no responsibility for improper use.

Provide adequate training to personnel handling chemical products.

Sections modified from the previous version: all. First issue.