

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

1.1. Product identifier

Product name : CRYSTAL

Product code: refer to sales department

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

Acid descaler

Sectors of use:

Industrial Manufacturing[SU3], Manufacture of food products[SU4], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Washing and Cleaning Products (including solvent based products)

Process categories:

Use in batch and other process (syn- thesis) where opportunity for exposure arises[PROC4], Transfer of substance or mixture (charging and discharging) at nondedicated facilities[PROC8A], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B], Application with rollers or brushes [PROC10]

Not recommended uses

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS05, GHS07

Hazard Class and Category Code(s):

Met. Corr. 1, Skin Corr. 1, Eye Dam. 1, STOT SE 3

Hazard statement Code(s):

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

The product can be corrosive to metals

Corrosive product: causes severe skin burns and eye damage.

If inhaled, the product causes irritations to the respiratory tract.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS05, GHS07 - Danger

Hazard statement Code(s):

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

Supplemental Hazard statement Code(s):

not applicable



Precautionary statements:

Prevention

P260 - Do not breathe vapours/spray.

P280 - Wear protective gloves/clothing and eye/face protection.

Response

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Contains:

chloridric acid, orthophosphoric acid.

Contains (Reg.EC 648/2004):

< 5% cationic surfactants

2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Do not ingest. Keep out of reach of children.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Hydrogen ChlorideB	$14 \leq x < 18\%$	Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335	017-002-01-X	7647-01-0	231-595-7	01-2119484 862-27-XXX X
Orthophosphoric acidB	$1 \leq x < 4\%$	Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	015-011-00-6	7664-38-2	231-633-2	01-2119485 924-24-XXX X
Benzyl-C12-14-alkyldimethylamm onium chlorides	$0,1 \leq x < 0,25\%$	Acute Tox. 4, H302; Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 10		85409-22-9	287-089-1	01-2119970 550-39-XXX X

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
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SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids well. Consult a physician immediately.

SKIN: Take off contaminated clothing. Take a shower immediately. Consult a physician immediately.

INGESTION: Give as much water to drink as possible. Consult a physician immediately. Do not induce vomiting unless expressly authorized by your doctor.

INHALATION: Call a doctor immediately. Take the person out into fresh air, away from the accident site. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

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

Ingestion can cause chemical burns in the mouth and throat. Contact with skin can cause burns. In contact with eyes it causes very strong irritation, including redness and tearing. Inhalation can cause asthmatic respiratory failure; the irritation of the mucous membranes and the respiratory tract can cause nausea and difficulty in breathing.

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

Symptomatic treatment

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA The extinguishing media are the traditional ones: carbon dioxide, foam, powder and nebulized water.

UNSUITABLE EXTINGUISHING MEDIA None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Avoid breathing combustion products.

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 to health. Always wear full fire protection equipment. Collect the extinguishing water that must not be discharged into the sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations. **EQUIPMENT** Normal clothing for firefighting, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and boots for firefighters (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Move away from the area surrounding the spill or release. Not smoking. Wear a mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all open flames and possible sources of ignition. Not smoking. Provide adequate ventilation. Evacuate the danger area and, if necessary, consult an expert. Stop the leak if there is no danger. Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing.

6.2. Environmental precautions

Contain spills with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities.

Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material or suck it.

Prevent it from entering the sewer system.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

Wear protective gloves/clothing and eye/face protection.

In residential areas do not use on large surfaces.

At work do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:

Handle with care. Store in a well ventilated place and away from heat sources. (7-30 ° C) and in the original containers

Manufacture of food products:

Handle with care. Store in a well ventilated place and away from heat sources. (7-30 ° C) and in the original containers

Public domain (administration, education, entertainment, services, craftsmen):

Handle with care. Store in a well ventilated place and away from heat sources. (7-30 ° C) and in the original containers

See the annex exposure scenario.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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Related to contained substances:

Hydrogen Chloride:

Type	State	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLA	ESP	7,6	5	15	10
VLEP	ITA	8	5	15	10
TLV	ROU	8	5	15	10
MV	SVN	8	5	16	10
OEL	EU	8	5	15	10
TLV-ACGIH				2,9 (C)	2 (C)

(C) = CEILING

Orthophosphoric acid:

Type	State	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2		4		INALAB
MAK	DEU	2		4		INALAB
VLA	ESP	1		2		
VLEP	FRA	1	0.2	2	0.5	
WEL	GBR	1		2		
TLV	GRC	1		3		
AK	HUN	1		2		
VLEP	ITA	1		2		
RD	LTU	1		2		
TLV	ROU	1		2		
MV	SVN	1		2		
OEL	EU	1		2		
TLV-ACGIH		1		3		

- Substance: Hydrogen Chloride

DNEL

Local effects Long term Workers inhalation = 8

Local effects Short term Workers inhalation = 15 (mg/m3)

PNEC

Sweet water = 0,036 (mg/l)

Sea water = 0,036 (mg/l)

intermittent emissions = 0,045 (mg/l)

STP = 0,036 (mg/l)

- Substance: Orthophosphoric acid

DNEL

Systemic effects Long term Workers inhalation = 10,7 (mg/m³)

Systemic effects Long term Consumers inhalation = 4,57 (mg/m³)

Systemic effects Long term Consumers oral = 0,1 (mg/kg bw/day)

Local effects Long term Workers inhalation = 1

Local effects Long term Consumers inhalation = 0,36 (mg/m³)

Local effects Short term Workers inhalation = 2 (mg/m³)

- Substance: Benzyl-C12-14-alkyldimethylammonium chlorides

DNEL

Systemic effects Long term Workers inhalation = 3,96 (mg/m³)

Systemic effects Long term Workers dermal = 5,7 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,64 (mg/m³)

Systemic effects Long term Consumers dermal = 3,4 (mg/kg bw/day)

Local effects Long term Workers inhalation = 3,96

PNEC

Sweet water = 0,0009 (mg/l)

sediment Sweet water = 12,27 (mg/kg/sediment)

Sea water = 0,00096 (mg/l)

sediment Sea water = 13,09 (mg/kg/sediment)

intermittent emissions = 0,00016 (mg/l)

STP = 0,4 (mg/l)

ground = 7 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

It is recommended to wear hooded visor or protective visor combined with airtight goggles (ref. Standard EN 166).

(b) Skin protection

(i) Hand protection

Protect hands with category III work gloves (ref. Standard EN 374).

For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, time of rupture and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use in how unpredictable. The gloves have a wear time that depends on the duration and the way of use.

(ii) Other

When handling the pure product, wear clothing that fully protects the skin (work clothes generic / antacid, safety shoes

S3-EN ISO 20345) or other protective devices, according to the indications of the employer

(c) Respiratory protection

In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product, it is recommended to wear a mask with a type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided. The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited. In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open-circuit compressed air breathing apparatus (ref. Standard EN 137) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of respiratory protection device, refer to EN 529 standard.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	clear colorless liquid	
Odour	not determined as considered not relevant for the characterization of the product	
Odour threshold	not determined as considered not relevant for the characterization of the product	
pH	<2.0 (20 ° C); <2.0 (20 ° C; 5% sol.)	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	
Evaporation rate	not determined as considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Vapour density	not determined as considered not relevant for the characterization of the product	
Relative density	1.10 ± 0.05 (20 ° C)	
Solubility	in water	
Water solubility	miscible in all proportions	
Partition coefficient: n-octanol/water	not determined as considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
Decomposition temperature	not determined as considered not relevant for the characterization of the product	
Viscosity	not determined as considered not relevant for the characterization of the product	
Explosive properties	not determined as considered not relevant for the characterization of the product	
Oxidising properties	not determined as considered not relevant for the characterization of the product	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use. PHOSPHORIC ACID Decomposes at temperatures above 200 ° C / 392 ° F.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage no dangerous reactions are foreseeable. HYDROCHLORIC ACID Risk of explosion on contact with: alkali metals, aluminum powder, hydrogen cyanide, alcohol. PHOSPHORIC ACID Risk of explosion on contact with: nitromethane. Can react dangerously with: alkali, sodium boron hydride.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions against chemicals.

10.5. Incompatible materials

HYDROCHLORIC ACID Incompatible with: alkalis, organic substances, strong oxidants, metals. PHOSPHORIC ACID Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

10.6. Hazardous decomposition products

HYDROCHLORIC ACID Incompatible with: alkalis, organic substances, strong oxidants, metals PHOSPHORIC ACID
Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 200.803,2 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: Hydrogen Chloride: LD50 (Oral) 900 mg / kg Rabbit

LC50 (Inhalation) 3124 ppm / 1h Rat

Orthophosphoric acid: LD50 (Oral) 1530 mg / kg Rat

LD50 (Cutaneous) 2740 mg / kg Rabbit

LC50 (Inhalation) > 0.85 mg / l / 1h Rat

Benzyl-C12-14-alkyldimethylammonium chlorides: Ingestion - LD50 rat (mg / kg / 24h bw): 2000

Contact with skin - LC50 rat / rabbit (mg / kg / 24h bw): nd

Inhalation - LD50 rat (mg / l / 4h): nd

(b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.

Hydrogen Chloride: Corrosive

Orthophosphoric acid: Corrosive

Benzyl-C12-14-alkyldimethylammonium chlorides: Corrosive

Hydrogen Chloride: Irritating

Orthophosphoric acid: Irritating

Benzyl-C12-14-alkyldimethylammonium chlorides: Corrosive

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. - If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

Hydrogen Chloride: Corrosive

Orthophosphoric acid: Corrosive

Benzyl-C12-14-alkyldimethylammonium chlorides: Causes serious eye damage

Hydrogen Chloride: irritating

Orthophosphoric acid: Irritating

Benzyl-C12-14-alkyldimethylammonium chlorides: Causes serious eye damage

(d) respiratory or skin sensitization: Hydrogen Chloride: Non-sensitizing

Orthophosphoric acid: Not available

Benzyl-C12-14-alkyldimethylammonium chlorides: Not sensitizing

(e) germ cell mutagenicity: Hydrogen Chloride: Non-mutagenic

Orthophosphoric acid: Non-mutagenic

Benzyl-C12-14-alkyldimethylammonium chlorides: Not mutagenic

(f) carcinogenicity: Hydrogen Chloride: Non-carcinogenic

Orthophosphoric acid: Non-carcinogenic

Benzyl-C12-14-alkyldimethylammonium chlorides: Not carcinogenic

(g) reproductive toxicity: Hydrogen Chloride: Non-toxic for reproduction

Orthophosphoric acid: Non-toxic for reproduction

Benzyl-C12-14-alkyldimethylammonium chlorides: Non-toxic

(h) specific target organ toxicity (STOT) single exposure: If inhaled, the product causes irritations to the respiratory tract.

Hydrogen Chloride: Not available

Orthophosphoric acid: Not available

Benzyl-C12-14-alkyldimethylammonium chlorides: Not available

(i) specific target organ toxicity (STOT) repeated exposure Hydrogen Chloride: Toxic by repeated exposure to the respiratory tract and lungs with route of exposure inhalation (gas phase)

Orthophosphoric acid: Not available

Benzyl-C12-14-alkyldimethylammonium chlorides: Not available
(j) aspiration hazard: Hydrogen Chloride: Not available
Orthophosphoric acid: Not available
Benzyl-C12-14-alkyldimethylammonium chlorides: Not available

SECTION 12. Ecological information

12.1. Toxicity

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Related to contained substances:

Hydrogen Chloride:

Acute toxicity - fish LC50 (mg / l / 96h): nd

Acute toxicity algae ErC50 (mg / l / 72-96h): nd

Acute toxicity - crustaceans EC50 (mg / l / 48h): nd

Orthophosphoric acid:

LC50 - Species: Pisces = nd

EC50 - Species: Daphnia magna nd - Duration h: 48

EC50 - Species: Algae nd - Duration h: 72

Benzyl-C12-14-alkyldimethylammonium chlorides:

Acute toxicity - Fish - Danio rerio LC50 (mg / l / 96h): 1.0

Acute toxicity - Crustaceans - Daphnia magna EC50 (mg / l / 48h): 0.0058

Acute toxicity - Algae / Aquatic plants - Selenastrum capricornutum EC50 (mg / l / 72h) 0.049 Chronic toxicity -

Crustaceans - NOEC (mg / l): 0.025

Acute toxicity M-factor = 10

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

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Related to contained substances:

Hydrogen Chloride:

Solubility in water > 10000 mg / l Degradability: data not available

Orthophosphoric acid:

Solubility in water > 850000 mg / l Degradability: data not available

Benzyl-C12-14-alkyldimethylammonium chlorides:

Rapidly degradable > 80% - OECD TG 301 A

12.3. Bioaccumulative potential

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Related to contained substances:

Hydrogen Chloride:

No data available.

Orthophosphoric acid:

Not bioaccumulative

Benzyl-C12-14-alkyldimethylammonium chlorides:

Information not available

12.4. Mobility in soil

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Related to contained substances:

Hydrogen Chloride:

No data available.

Orthophosphoric acid:

Not available

Benzyl-C12-14-alkyldimethylammonium chlorides:

Information not available

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partly contains this product must be assessed according to the laws in force. Disposal must be entrusted to an authorized waste management company, in compliance with national and local regulations. Waste transportation may be subject to ADR. CONTAMINATED PACKAGING Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 3264

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packaging placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg



14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO INORGANICO CORROSIVO, ACIDO, N.A.S. (Acido cloridrico, Acido ortofosforico)

ADR/RID/IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen Chloride, Orthophosphoric acid)

ICAO-IATA: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrogen Chloride, Orthophosphoric acid)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 8
ADR/RID/IMDG/ICAO-IATA: Label : 8
ADR: Tunnel restriction code : E
ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 L
IMDG - EmS : F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous
IMDG: Marine polluting agent : No

14.6. Special precautions for user

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC
Reg. EC 648/04: see 2.2
Reg. (EU) n. 1169/2011: see 2.2
Reg (UE) 528/2012: see to 2.2
REGULATION (EU) No 1357/2014 - waste:
HP8 - Corrosive
HP14 - Ecotoxic

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.2. Label elements 4.1. Description of first aid measures, 4.2. Most important symptoms and effects, both acute and delayed, 4.3. Indication of any immediate medical attention and special treatment needed, 5.1. Extinguishing media, 5.2. Special hazards arising from the substance or mixture, 5.3. Advice for firefighters, 6.1. Personal precautions, protective equipment and emergency procedures, 6.3. Methods and material for containment and cleaning up, 7.1. Precautions for safe handling, 7.3. Specific end use(s), 8.2. Exposure controls, 10.2. Chemical stability, 10.3. Possibility of hazardous reactions, 10.4. Conditions to avoid, 10.5. Incompatible materials, 10.6. Hazardous decomposition products, 11.1. Information on toxicological effects

Description of hazard statements set out in paragraph 3

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

H335 = May cause respiratory irritation.

H302 = Harmful if swallowed.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

Classification based on data of all mixture components

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.

Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Regulation (UE) 528/2012 (Biocides) et seq.

Procedure used to classify under CLP mixture (Reg . EC 1272/2008):

Physical hazards: On the basis of experimental data

H314 Skin. Corr. 1A: On the basis of experimental data / Calculation Method

Other hazards: Calculation Method

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimati

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level
EC50: half maximal Effective Concentration
ERC: Environment Release Classes
EU/UE: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
Kow: Octanol water partition coefficient
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PBT: Persistent Bioaccumulative and Toxic
PC: Product Categories
PNEC: Predicted No Effect Concentration
PROC: Process Categories
RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)
STOT: Target Organ Systemic Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure
STP: Sewage Treatment Plants
SU: Sector of Use
SVCH: Substance of Very High Concern
TLV: Threshold Limit Value
vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:
<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS supplier
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by AEB technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: sec. 1,2,4,5,6,7,8,10,11,12 - exposure scenarios update - Working instruction table attached

SUMI

Informazioni sull'Uso Sicuro delle
Miscele

**AISE_SUMI_IS_4_2**

Versione 1.1, agosto 2018

Usi industriali; processo automatizzato, processo semi-automatizzato; dispositivi dedicati.

Questo documento ha lo scopo di comunicare le condizioni per l'uso sicuro del prodotto e deve sempre essere considerato complementare alla Scheda Dati di Sicurezza e all'etichetta.

Descrizione generale del processo

Questo SUMI si applica agli usi industriali in cui il prodotto è utilizzato in processi chiusi durante i quali si manifestano occasioni di esposizione. Il SUMI si basa sull' **AISE_SWED_IS_4_2**.

Condizioni operative

Durata massima	480 minuti/giorno
Tipo di applicazione / Condizioni di processo	Al chiuso (indoor)
	Processo svolto a temperatura ambiente
	Se il prodotto deve essere diluito, usare acqua corrente alla Temperatura massima di 45°C.
Ricambi d'aria	Nessun LEV richiesto; prevedere ventilazione generale standard base (1-3 ricambi d'aria/ora).

Misure di gestione del rischio

Condizioni e misure relative ai Dispositivi di Protezione Individuale (DPI), all'igiene e alla valutazione della salute.	Indossare guanti adatti. Vedere sezione 8 della SDS del prodotto per le specifiche.
	 Deve essere assicurato l'addestramento del personale per il corretto uso e la manutenzione dei DPI.
Misure di protezione ambientale	Evitare che sversamenti di prodotto non diluito raggiungano le fogne o le acque superficiali.
	Nel caso si applichi l'AISE SPERC 8a.1.a.v2: uso ampiamente dispersivo che può portare al rilascio all'impianto di trattamento municipalizzato.

Ulteriori accorgimenti di buona pratica

Non bere o mangiare Non fumare. Non usare in prossimità di fiamme libere.	
Lavare le mani dopo l'uso Evitare il contatto con pelle lesa. Non miscelare con altri prodotti.	
In caso di sversamento	Sciacquare diluendo con acqua e assorbire con panni, spugne o simili
Consigli di igiene	Seguire le istruzioni riportate in etichetta o nella scheda tecnica ed usare buone pratiche di igiene occupazionale come specificato nella sez.7 della SDS del prodotto.

Informazioni aggiuntive dipendenti dalla composizione del prodotto

L'etichetta e (quando richiesta) la Scheda Dati di Sicurezza contengono informazioni cruciali, aggiuntive e specifiche per l'utilizzo sicuro delle miscele.

Far riferimento all'etichetta e alla Scheda Dati di Sicurezza del prodotto, particolarmente per le informazioni riguardanti: classificazione di pericolo del prodotto, fragranze potenzialmente allergeniche, ingredienti significativi e valori limite di esposizione (quando disponibili).

Avvertenza

Questo è un documento per comunicare le condizioni generiche di uso sicuro per un prodotto. È responsabilità del formulatore allegare questo SUMI alla SDS del prodotto specifico che sta immettendo sul mercato.

Se nella SDS viene menzionato il codice di un SUMI (o dello SWED associato) il formulatore del prodotto dichiara che tutte le sostanze contenute nella miscela sono presenti in concentrazione tale per cui l'uso del prodotto è sicuro. Quando disponibile, l'uso sicuro del prodotto è garantito dalla valutazione dei risultati del CSA "Chemical Safety Assessment" effettuato da parte del fornitore delle materie prime. Nel caso in cui non sia stato effettuato un CSA da parte del fornitore, il formulatore ha effettuato esso stesso la valutazione di sicurezza degli ingredienti che contribuiscono alla pericolosità.

In accordo alla legislazione sulla salute del Lavoro, il datore di lavoro che utilizza prodotti valutati sicuri seguendo le condizioni del SUMI, rimane responsabile di comunicare agli impiegati le rilevanti informazioni di utilizzo. Quando si sviluppano le istruzioni per i lavoratori, i SUMI dovrebbero essere sempre considerati in combinazione con le SDS e le etichette dei prodotti.

Questo documento è stato reso disponibile da A.I.S.E. e tradotto da Assocasa Federchimica con solo scopo informativo. Il formulatore utilizza il contenuto del documento a suo rischio.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_8b_1***Version 1.1, August 2018****Transfer and dilution of concentrated product by using dedicated dosing system***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to industrial uses where products are transferred to or diluted in a dedicated dosing system. This Safe Use Information is based on the **AISE_SWED_IS_8b_1_L** and **AISE_SWED_IS_8b_1_S**

Operational Conditions

Maximum duration	60 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI

Informazioni sull'Uso Sicuro delle
Miscele

**AISE_SUMI_IS_10_1_G**

Versione 1.1, agosto 2018

Applicazione mediante spazzola, pennelli, stracci, spugne, rulli e simili; processo automatizzato

Questo documento ha lo scopo di comunicare le condizioni per l'uso sicuro del prodotto e deve sempre essere considerato complementare alla Scheda Dati di Sicurezza e all'etichetta.

Descrizione generale del processo

Questo SUMI si applica agli usi industriali in cui il prodotto è utilizzato in processi che prevedono l'applicazione mediante spazzola, pennelli, stracci, spugne, rulli e simili. Il SUMI si basa sull'AISE_SWED_IS_10_1.

Condizioni operative

Durata massima	480 minuti/giorno
Tipo di applicazione / Condizioni di processo	Al chiuso (indoor)
	Processo svolto a temperatura ambiente
	Se il prodotto deve essere diluito, usare acqua corrente alla Temperatura massima di 45°C.
Ricambi d'aria	Nessun LEV richiesto; prevedere ventilazione generale standard base (1-3 ricambi d'aria/ora).

Misure di gestione del rischio

Condizioni e misure relative ai Dispositivi di Protezione Individuale (DPI), all'igiene e alla valutazione della salute.	Indossare guanti adatti. Proteggere gli occhi. Vedere sezione 8 della SDS del prodotto per le specifiche. 
	Deve essere assicurato l'addestramento del personale per il corretto uso e la manutenzione dei DPI.
Misure di protezione ambientale	Evitare che sversamenti di prodotto non diluito raggiungano le fogne o le acque superficiali.
	Nel caso si applichi l'AISE SPERC 8a.1.a.v2: uso ampiamente dispersivo che può portare al rilascio all'impianto di trattamento municipalizzato.

Ulteriori accorgimenti di buona pratica

Non bere o mangiare Non fumare. Non usare in prossimità di fiamme libere.	
Lavare le mani dopo l'uso Evitare il contatto con pelle lesa. Non miscelare con altri prodotti.	
In caso di sversamento	Sciacquare diluendo con acqua e assorbire con panni, spugne o simili
Consigli di igiene	Seguire le istruzioni riportate in etichetta o nella scheda tecnica ed usare buone pratiche di igiene occupazionale come specificato nella sez.7 della SDS del prodotto.

Informazioni aggiuntive dipendenti dalla composizione del prodotto

L'etichetta e (quando richiesta) la Scheda Dati di Sicurezza contengono informazioni cruciali, aggiuntive e specifiche per l'utilizzo sicuro delle miscele.

Far riferimento all'etichetta e alla Scheda Dati di Sicurezza del prodotto, particolarmente per le informazioni riguardanti: classificazione di pericolo del prodotto, fragranze potenzialmente allergeniche, ingredienti significativi e valori limite di esposizione (quando disponibili).

Avvertenza

Questo è un documento per comunicare le condizioni generiche di uso sicuro per un prodotto. È responsabilità del formulatore allegare questo SUMI alla SDS del prodotto specifico che sta immettendo sul mercato.

Se nella SDS viene menzionato il codice di un SUMI (o dello SWED associato) il formulatore del prodotto dichiara che tutte le sostanze contenute nella miscela sono presenti in concentrazione tale per cui l'uso del prodotto è sicuro. Quando disponibile, l'uso sicuro del prodotto è garantito dalla valutazione dei risultati del CSA "Chemical Safety Assessment" effettuato da parte del fornitore delle materie prime. Nel caso in cui non sia stato effettuato un CSA da parte del fornitore, il formulatore ha effettuato esso stesso la valutazione di sicurezza degli ingredienti che contribuiscono alla pericolosità.

In accordo alla legislazione sulla salute del Lavoro, il datore di lavoro che utilizza prodotti valutati sicuri seguendo le condizioni del SUMI, rimane responsabile di comunicare agli impiegati le rilevanti informazioni di utilizzo. Quando si sviluppano le istruzioni per i lavoratori, i SUMI dovrebbero essere sempre considerati in combinazione con le SDS e le etichette dei prodotti.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_PW_4_1***Version 1.1, August 2018****Professional uses; Semi-closed system***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

The SUMI applies to professional uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the **AISE_SWED_PW_4_1**.

Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	See section 8 of the SDS of this product for specifications.
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_PW_8a_1_G***Version 1.1, August 2018****Transfer of product to a container (bottle/bucket/machine)***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to professional uses where the product is transferred to or diluted in a container, such as a dispenser, bottle or bucket. Safe Use Information is based on the **AISE_SWED_PW_8a_1_L** and **AISE_SWED_PW_8a_1_S**.

Operational Conditions

Maximum duration	60 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves and eye protection. See section 8 of the SDS of this product for specifications.  
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI

Informazioni sull'Uso Sicuro delle
Miscele

**AISE_SUMI_PW_10_2_G**

Versione 1.1, agosto 2018

Usi professionali; Spazzolamento/strofinamento dopo applicazione a spruzzo (trigger) o spazzolamento/strofinamento con utensili

Questo documento ha lo scopo di comunicare le condizioni per l'uso sicuro del prodotto e deve sempre essere considerato complementare alla Scheda Dati di Sicurezza e all'etichetta.

Descrizione generale del processo

Questo SUMI si applica agli usi professionali quando il prodotto è spazzolato/strofinato su una superficie, con limitata esposizione delle mani, con applicazione a spruzzo o mediante utensili come stracci. Il SUMI si basa sull' **AISE_SWED_PW_10_2**.

Condizioni operative

Durata massima	480 minuti/giorno
Tipo di applicazione / Condizioni di processo	Al chiuso (indoor)
	Processo svolto a temperatura ambiente
	Se il prodotto deve essere diluito, usare acqua corrente alla Temperatura massima di 45°C.
Ricambi d'aria	Nessun LEV richiesto; prevedere ventilazione generale standard base (1-3 ricambi d'aria/ora).

Misure di gestione del rischio

Condizioni e misure relative ai Dispositivi di Protezione Individuale (DPI), all'igiene e alla valutazione della salute.	Indossare guanti adatti. Proteggere gli occhi. Vedere sezione 8 della SDS del prodotto per le specifiche.
	 Deve essere assicurato l'addestramento del personale per il corretto uso e la manutenzione dei DPI.
Misure di protezione ambientale	Evitare che sversamenti di prodotto non diluito raggiungano le acque superficiali.
	Nel caso si applichi l'AISE SPERC 8a.1.a.v2: uso ampiamente dispersivo che può portare al rilascio all'impianto di trattamento municipalizzato.

Ulteriori accorgimenti di buona pratica

Non bere o mangiare Non fumare. Non usare in prossimità di fiamme libere.	
Lavare le mani dopo l'uso Evitare il contatto con pelle lesa. Non miscelare con altri prodotti.	
In caso di sversamento	Sciacquare diluendo con acqua e assorbire con panni, spugne o simili.
Consigli di igiene	Seguire le istruzioni riportate in etichetta o nella scheda tecnica ed usare buone pratiche di igiene occupazionale come specificato nella sez.7 della SDS del prodotto.

Informazioni aggiuntive dipendenti dalla composizione del prodotto

L'etichetta e (quando richiesta) la Scheda Dati di Sicurezza contengono informazioni cruciali, aggiuntive e specifiche per l'utilizzo sicuro delle miscele.

Far riferimento all'etichetta e alla Scheda Dati di Sicurezza del prodotto, particolarmente per le informazioni riguardanti: classificazione di pericolo del prodotto, fragranze potenzialmente allergeniche, ingredienti significativi e valori limite di esposizione (quando disponibili).

Avvertenza

Questo è un documento per comunicare le condizioni generiche di uso sicuro per un prodotto. È responsabilità del formulatore allegare questo SUMI alla SDS del prodotto specifico che sta immettendo sul mercato.

Se nella SDS viene menzionato il codice di un SUMI (o dello SWED associato) il formulatore del prodotto dichiara che tutte le sostanze contenute nella miscela sono presenti in concentrazione tale per cui l'uso del prodotto è sicuro. Quando disponibile, l'uso sicuro del prodotto è garantito dalla valutazione dei risultati del CSA "Chemical Safety Assessment" effettuato da parte del fornitore delle materie prime. Nel caso in cui non sia stato effettuato un CSA da parte del fornitore, il formulatore ha effettuato esso stesso la valutazione di sicurezza degli ingredienti che contribuiscono alla pericolosità.

In accordo alla legislazione sulla salute del Lavoro, il datore di lavoro che utilizza prodotti valutati sicuri seguendo le condizioni del SUMI, rimane responsabile di comunicare agli impiegati le rilevanti informazioni di utilizzo. Quando si sviluppano le istruzioni per i lavoratori, i SUMI dovrebbero essere sempre considerati in combinazione con le SDS e le etichette dei prodotti.

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WORKING ISTRUCTION TABLE



This tab provides instructions for appropriate and safe use of products and proper management of emergency situations for cleaning staff/users.

Attached to MSDS rel#7 del 10/14/20

Use description	Use in batch and other process (synthesis) where opportunity for exposure arises [PROC4]; Transfer of substance or mixture (charging and discharging) at dedicated facilities [PROC8b]; Application with rollers or brushes [PROC10]
Product name	CRYSTAL
Classification of the product (100%)	H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage. H335 - May cause respiratory irritation.
Classification of the diluted product (maximum use concentration)	At maximux concentration of use (5%) the product is classified for health: H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage.
Handling of the product (100%)	Avoid contact and inhalation of vapors Wear protective gloves/protective clothing/eye protection/face protection. At work do not eat or drink.
Handling of the diluted product	At work do not eat or drink.
DPI required concentrated product (racking, concentrated use, spillage...)	Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), Wear protective goggles (EN 166).
Diluted product	Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), Wear protective goggles (EN 166).

In case of emergency (accidents involving exposure to the product)	Immediately inform the customer. Immediately inform the employer. Contact Poisons Centres tel. number in 1.4 section of the MSDS
Accidental release large quantities measures: concentrated product	Wear gloves, glasses and protective clothing (for specifications refer to section 8.2. SDS) Possibly absorb it with inert material or suck it. After wiping up, wash with water the area and materials involved
Diluted product	Wash with water the area and materials involved
Storage of the product	Keep in original container closed tightly. Do not store in open or unlabelled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool and dry place, away from heat sources and direct exposure to sunlight.
In case of accidents, emergency or fire	Immediately inform the customer. Follow company emergency instruction.