





**MACYPLAST EXPRESS**



**2.3 OTHER HAZARDS:**  
 Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:  
[Other physicochemical hazards:](#) No other relevant adverse effects are known.  
[Other adverse human health effects:](#) No other relevant adverse effects are known.  
[Other negative environmental effects:](#)

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 SUBSTANCES:**  
 Not applicable (mixture).

**3.2 MIXTURES:**  
 This product is a mixture.  
[Chemical description:](#)  
 Mezcla de Pigmentos, cargas, resinas y aditivos.

[HAZARDOUS INGREDIENTS:](#)  
 Substances taking part in a percentage higher than the exemption limit:



30 < 40 % **Cement portland**  
 CAS: 65997-15-1 , EC: 266-043-4  
 CLP: Danger: Skin Irrit. 2:H315 | Eye Dam. 1:H318 | Skin Sens. 1B:H317 | STOT SE (irrit.)  
 3:H335

Autoclassified

[Impurities:](#)  
 Does not contain other components or impurities which will influence the classification of the product.

[Stabilizers:](#)  
 None

[Reference to other sections:](#)  
 For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

[SUBSTANCES OF VERY HIGH CONCERN \(SVHC\):](#)  
 List updated by ECHA on 20/06/2016.  
[Substances SVHC subject to authorisation, included in Annex XIV of Regulation \(EC\) no. 1907/2006:](#)  
 None  
[Substances SVHC candidate to be included in Annex XIV of Regulation \(EC\) no. 1907/2006:](#)  
 None

[PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:](#)  
 Not applicable (inorganic mixture).

**SECTION 4 : FIRST AID MEASURES**

**4.1 DESCRIPTION OF FIRST-AID MEASURES:**



Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<a href="#">Inhalation:</a> 	Inhalation produces irritation to mucus, coughing and breathlessness.	In case of dust inhalation, remove the patient out of the contaminated area into the fresh air. If there is difficulty in breathing, apply oxygen. If necessary, artificial respiration. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position.
<a href="#">Skin:</a> 	Skin contact causes redness and pain.	Wash with water and soap. Do not use solvents or thinners.
<a href="#">Eyes:</a> 	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
<a href="#">Ingestion:</a>	If swallowed, may cause irritation of the mouth and throat, abdominal pain, vomiting and diarrhoea.	If swallowed, seek medical advice immediately and show container or label. Do not induce vomiting. Keep the patient at rest.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**  
 The main symptoms and effects are indicated in sections 4.1 and 11

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**  
[Notes to physician:](#) Treatment should be directed at the control of symptoms and the clinical condition of the patient.  
[Antidotes and contraindications:](#) Specific antidote not known.



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**SECTION 5 : FIRE-FIGHTING MEASURES**

Not combustible.

- 5.1 **EXTINGUISHING MEDIA:**  
Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.
- 5.2 **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**  
However, if it is located in a fire, may sustain combustion, decompose and give off toxic or irritant vapours.
- 5.3 **ADVICE FOR FIREFIGHTERS:**  
**Special protective equipment:** Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.  
**Other recommendations:** Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

- 6.1 **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**  
Avoid direct contact with this product.
- 6.2 **ENVIRONMENTAL PRECAUTIONS:**  
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.
- 6.3 **METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**  
Contain and mop up spills with electrically-protected vacuum cleaner or by wet brushing. Do not use a dry brush as dust clouds can be created. Avoid use of solvents. Keep the remains in a closed container.
- 6.4 **REFERENCE TO OTHER SECTIONS:**  
For contact information in case of emergency, see section 1.  
For information on safe handling, see section 7.  
For exposure controls and personal protection measures, see section 8.  
For subsequent waste disposal, follow the recommendations in section 13.

**SECTION 7 : HANDLING AND STORAGE**

- 7.1 **PRECAUTIONS FOR SAFE HANDLING:**  
Comply with the existing legislation on health and safety at work.  
**General recommendations:**  
Avoid any type of leakage or escape. Dust generation should be minimized as possible.  
**Recommendations for the prevention of fire and explosion risks:**  
The product is not liable to ignite, deflagrate or explode, and does not sustain the combustion reaction by oxygen from air in the environment in which it is, so it is not included in the scope of Directive 94/9/EC concerning equipment and protective systems intended for use in potentially explosive atmospheres. Also they are not applicable the provisions of the ITC MIE BT-29 on the detailed requirements for electrical installations in locals with risk of fire or explosion.  
**Recommendations for the prevention of toxicological risks:**  
Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. Avoid applying the product directly to people, animals, plants or foodstuffs. For exposure controls and personal protection measures, see section 8.  
**Recommendations for the prevention of environmental contamination:**  
It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.
- 7.2 **CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**  
Keep away from food, drink and animal foodstuffs. Keep out of reach of children. Keep container dry. Avoid humidity. Keep only in the original container. Keep container tightly closed. For more information, see section 10.  
**Class of store** : According to current legislation.  
**Maximum storage period** : 6 months  
**Temperature interval** : min: 5. °C, max: 30. °C (recommended).  
**Incompatible materials:**  
None in particular.  
**Type of packaging:**  
According to current legislation.  
**Limit quantity (Seveso III): Directive 2012/18/EU:**  
No applicable.
- 7.3 **SPECIFIC END USES:**  
For the use of this product do not exist particular recommendations apart from that already indicated.



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**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2014	Year	TLV-TWA ppm	mg/m3	TLV-STEL ppm	mg/m3	Remarks
Cement portland	1986	-	10.	-	-	

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

BIOLOGICAL LIMIT VALUES:

Not established

DERIVED NO-EFFECT LEVEL (DNEL):

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

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/kg bw/d -	<u>DNEL Oral</u> mg/kg bw/d -
	<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/cm2 -
<u>Derived no-effect level, general population:</u> - Systemic effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/kg bw/d -	<u>DNEL Oral</u> mg/kg bw/d -
	<u>Derived no-effect level, general population:</u> - Local effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/cm2 -

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

<u>Predicted no-effect concentration, aquatic organisms:</u> - Fresh water, marine water and intermitent release: Not available (without data of registration REACH).	<u>PNEC Fresh water</u> mg/l -	<u>PNEC Marine</u> mg/l -	<u>PNEC Intermittent</u> mg/l -
	- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Not available (without data of registration REACH).	<u>PNEC STP</u> mg/l -	<u>PNEC Sediments</u> mg/kg dry weight -
<u>Predicted no-effect concentration, terrestrial organisms:</u> - Air, soil and effects for predators and humans: Not available (without data of registration REACH).	<u>PNEC Air</u> mg/m3 -	<u>PNEC Soil</u> mg/kg dry weight -	<u>PNEC Oral</u> mg/kg bw/d -



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8.2 EXPOSURE CONTROLS:

ENGINEERING MEASURES:



Provide adequate ventilation. If these measures are not sufficient to maintain concentrations of particles below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system: Avoid the inhalation of dust.

Protection of eyes and face:

Protection of hands and skin: Barrier creams may help to protect the exposed areas of the skin.

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

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

<u>Mask:</u>	Advisable.
<u>Goggles:</u>	Advisable.
<u>Face shield:</u>	No.
<u>Gloves:</u>	Advisable.
<u>Boots:</u>	No.
<u>Apron:</u>	No.
<u>Clothing:</u>	No.

Thermal hazards:

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

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment.

Spills on the soil: Prevent contamination of soil.

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

- Water Control Act: Este producto no contiene ninguna sustancia incluida en la lista de sustancias prioritarias en el ámbito de la política de aguas, según la Directiva 2000/60/CE~2013/39/UE.

Emissions to the atmosphere: Not applicable.



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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

9.1	<p><b>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</b></p> <p><u>Appearance</u></p> <ul style="list-style-type: none"> <li>- Physical state : Solid.</li> <li>- Colour : White.</li> <li>- Odour : Odourless</li> <li>- Odour threshold : Not applicable (odourless).</li> </ul> <p><u>pH-value</u></p> <ul style="list-style-type: none"> <li>- pH : Not applicable (solid).</li> </ul> <p><u>Change of state</u></p> <ul style="list-style-type: none"> <li>- Melting point : Not available</li> <li>- Initial boiling point : Not applicable</li> </ul> <p><u>Density</u></p> <ul style="list-style-type: none"> <li>- Relative density : 2.751* at 20/4°C <span style="float: right;">Relative water</span></li> </ul> <p><u>Stability</u></p> <ul style="list-style-type: none"> <li>- Decomposition temperature : Not applicable (thermally stable).</li> </ul> <p><u>Viscosity:</u></p> <ul style="list-style-type: none"> <li>- Viscosity (flow time) : Not applicable (solid).</li> </ul> <p><u>Volatility:</u></p> <ul style="list-style-type: none"> <li>- Vapour pressure : Not applicable</li> </ul> <p><u>Solubility(ies)</u></p> <ul style="list-style-type: none"> <li>- Solubility in water: : Insoluble</li> <li>- Liposolubility : Not applicable (inorganic product).</li> </ul> <p><u>Flammability:</u></p> <ul style="list-style-type: none"> <li>- Flash point : Not flammable</li> <li>- Autoignition temperature : Not applicable (not combustible).</li> </ul> <p><u>Explosive properties:</u> Not available.</p> <p><u>Oxidizing properties:</u> Not classified as oxidizing product.</p> <p>*Estimated values based on the substances composing the mixture.</p>
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9.2	<p><b>OTHER INFORMATION:</b></p> <p>The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.</p>
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**SECTION 10 : STABILITY AND REACTIVITY**

10.1	<p><b>REACTIVITY:</b></p> <p><u>Corrosivity to metals:</u> It is not corrosive to metals.</p> <p><u>Pyrophorical properties:</u> It is not pyrophoric.</p>
10.2	<p><b>CHEMICAL STABILITY:</b></p> <p>Stable under recommended storage and handling conditions.</p>
10.3	<p><b>POSSIBILITY OF HAZARDOUS REACTIONS:</b></p> <p>In contact with acids, produces hydrogen gas which is extremely inflammable and produces explosive mixtures when in contact with air.</p>
10.4	<p><b>CONDITIONS TO AVOID:</b></p> <p><u>Light:</u> Not applicable.</p> <p><u>Air:</u> The product is not affected by exposure to air, but should not be left the containers open.</p> <p><u>Humidity:</u> Avoid humidity.</p> <p><u>Pressure:</u> Not relevant.</p> <p><u>Shock:</u> The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.</p>
10.5	<p><b>INCOMPATIBLE MATERIALS:</b></p> <p>None in particular.</p>
10.6	<p><b>HAZARDOUS DECOMPOSITION PRODUCTS:</b></p> <p>No product of decomposition is dangerous if stored and handled properly.</p>



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**SECTION 11 : TOXICOLOGICAL INFORMATION**

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008-605/2014 (CLP).

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**

ACUTE TOXICITY:

Dose and lethal concentrations

for individual ingredients :

Not available

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

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

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Respiratory corrosion/irritation:</u> 	Respiratory ways 	Cat.3	IRRITANT: May cause respiratory irritation.
<u>Skin corrosion/irritation:</u> 	Skin 	Cat.2	IRRITANT: Causes skin irritation.
<u>Serious eye damage/irritation:</u> 	Eyes 	Cat.1	DAMAGE: Causes serious eye damage.
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
<u>Skin sensitisation:</u> 	Skin 	Cat.1	SENSITISING: May cause an allergic skin reaction.

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Aspiration hazard:</u> Not classified	-	-	Not applicable (solid).

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

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

CMR EFFECTS:

Carcinogenic effects: Is not considered as a carcinogenic product.

Genotoxicity: Is not considered as a mutagenic product.

Toxicity for reproduction: Do not harm fertility. Do not harm the fetus developing.

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

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

Routes of exposure: Not available.

Short-term exposure: Irritating to respiratory system. Risk of serious damage to eyes. Irritating to skin. May cause sensitization by skin contact.

Long-term or repeated exposure: Not available.



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**SECTION 12 : ECOLOGICAL INFORMATION**

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~605/2014 (CLP).

12.1	<p><u>TOXICITY:</u></p> <p><u>Acute toxicity in aquatic environment</u> for individual ingredients : Not available</p> <p><u>No observed effect concentration</u> Not available</p> <p><u>Lowest observed effect concentration</u> Not available</p>
12.2	<p><u>PERSISTENCE AND DEGRADABILITY:</u> Not available.</p>
12.3	<p><u>BIOACCUMULATIVE POTENTIAL:</u> Not available.</p>
12.4	<p><u>MOBILITY IN SOIL:</u> Not applicable.</p>
12.5	<p><u>RESULTS OF PBT AND VPVB ASSESMENT:</u> Annex XIII of Regulation (EC) no. 1907/2006: Not applicable (inorganic mixture).</p>
12.6	<p><u>OTHER ADVERSE EFFECTS:</u></p> <p><u>Ozone depletion potential:</u> Not available.</p> <p><u>Photochemical ozone creation potential:</u> Not available.</p> <p><u>Earth global warming potential:</u> Not available.</p> <p><u>Endocrine disrupting potential:</u> Not available.</p>

**SECTION 13 : DISPOSAL CONSIDERATIONS**

13.1	<p><u>WASTE TREATMENT METHODS:</u> Directive 2008/98/EC~Regulation (EU) no. 1357/2014: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.</p> <p><u>Disposal of empty containers:</u> Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC~2014/955/EU: Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, )in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.</p> <p><u>Procedures for neutralising or destroying the product:</u> Authorised landfill in accordance with local regulations.</p>
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**SECTION 14 : TRANSPORT INFORMATION**

14.1	<u>UN NUMBER:</u> Not applicable
14.2	<u>UN PROPER SHIPPING NAME:</u> Not applicable
14.3 14.4	<p><u>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</u></p> <p><u>Transport by road (ADR 2015) and Transport by rail (RID 2015):</u> Not reglamented</p> <p><u>Transport by sea (IMDG 37-14):</u> Not reglamented</p> <p><u>Transport by air (ICAO/IATA 2015):</u> Not reglamented</p> <p><u>Transport by inland waterways (ADN):</u> Free.</p>
14.5	<p><u>ENVIRONMENTAL HAZARDS:</u> Not applicable (not classified as hazardous for the environment).</p>
14.6	<p><u>SPECIAL PRECAUTIONS FOR USER:</u> Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are in a vertical position and sure.</p>
14.7	<p><u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not applicable.</p>

**SECTION 15 : REGULATORY INFORMATION**

15.1	<p><u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> The regulations applicable to this product generally are listed throughout this material safety data sheet.</p> <p><u>Restrictions on manufacture, placing on market and use:</u> See section 1.2</p> <p><u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2</p> <p><u>Tactile warning of danger:</u> Not applicable (the classification criteria are not met).</p> <p><u>Child safety protection:</u> Not applicable (the classification criteria are not met).</p> <p><u>Control of Cr(VI) soluble:</u> For cement treated with a Cr(VI) reducing agent the effect of the reducing agent decreases with time. Thus, the bags of cement should contain information on the date of packaging and the appropriate period of time for the reducing agent to continue to maintain the level of Cr(VI) soluble below 0.0002% of the total dry weight of the cement ready for use, according to EN 196-10. Should also indicate the appropriate storage conditions to ensure the effectiveness of the reducing agent.</p> <p><u>OTHER REGULATIONS:</u> Not available</p>
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15.2	<p><u>CHEMICAL SAFETY ASSESSMENT:</u> For this mixture has not been carried out a chemical safety assessment.</p>
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## SECTION 16 : OTHER INFORMATION

16.1 [TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:](#)  
[Hazard statements according the Regulation \(EC\) No. 1272/2008~605/2014 \(CLP\), Annex III:](#)  
 H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

[ADVISES ON ANY TRAINING APPROPRIATE FOR WORKERS:](#)

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

[MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:](#)

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Access to European Union Law, <http://eur-lex.europa.eu/>
- Threshold Limit Values, (AGCIH, 2014).

[ABBREVIATIONS AND ACRONYMS:](#)

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

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

[MATERIAL SAFETY DATA SHEET REGULATIONS:](#)

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

[HISTORY:](#)[Date of compilation:](#)

Version: 1

11/01/2017

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