



SAFETY DATA SHEET

Amonix
Revision 2: 2022/12/06
[replaces revision 1, dated 2020/05/15]
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Product: Amonix (ANFO)

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Commercial Name: Amonix type ANFO

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Explosive for demolition/blasting rock.

Unadvisable uses: Any other use is unadvised.

1.3 Details of the supplier and of the safety data sheet

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1.4 Emergency telephone number

European Emergency Number: 112

ClAV – Poison Control Information Centre: + 351 800 250 250

Helpdesks: <https://echa.europa.eu/en/support/helpdesks>

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

According to Regulation (CE) 1272/2008 of December 16:

Hazard class and category:

Explosives, Division 1.5 (Expl. 1.5)

H205: May mass explode in fire.

Serious eye damage/eye irritation, Hazard Category 2 (Eye irrit. 2)

H319: Causes serious eye irritation.

Carcinogenicity, Hazard Category 2 (Carc. 2)

H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Hazardous to the aquatic environment — Chronic Hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

According to Regulation (CE) 1272/2008 of December 16:

Hazard Pictogram: (Division 1.5 explosives do not have a pictogram in CLP Regulation)	Precautionary statements: <u>Prevention:</u> P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P234: Keep only in original packaging. P250: Do not subject to grinding/ shock/friction. P280: Wear protective gloves and clothing/eye and face protection. <u>Response:</u> P370 + P372 + P380 + P373: In case of fire: evacuate area. Explosion risk. DO NOT fight fire when fire reaches explosives. <u>Disposal:</u> P501: Dispose of contents/container in accordance with national regulations (Decreto-Lei No. 139/2002 of May 17, changed by the Decreto-Lei No. 87/2005, of May 23).
Signal word: Danger Hazard warnings: H205: May mass explode in fire.	

2.3 Other hazards

None of the substances present in the mixture at a concentration equal to or greater than 0.1% by mass fulfills the criteria for Persistent, Bioaccumulative, and Toxic Substances or very Persistent and very Bioaccumulative substances in accordance with Annex XIII of Regulation No. 1907/2006, in its current wording. None of the substances present in the mixture at a concentration equal to or greater than 0.1% by mass exhibits endocrine-disrupting properties.



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Burning/detonating produces hazardous gases, such as nitrogen oxides (NO_x), carbon monoxide (CO), and carbon dioxide (CO₂).

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESIGNATION	% (p/p)	CAS No.	CE No.	REACH REGISTRATION NO.	Regulation (CE) No. 1272/2008	
					HAZARD RATING	WARNINGS
Ammonium nitrate, solid	91-98%	6884-52-2	229-347-8	01-2119490981-27-0028	Oxidising Solids, Hazard Category 3 (Ox. Sol. 3); Serious eye damage/eye irritation, Hazard Category 2 (Eye Irrit. 2)	H272; H319
Diesel	2-9%	68334-30-5	269-822-7	01-2119450077-42-xxxx	Flammable liquids, Hazard Category 3 (Flam. Liq. 3); Skin corrosion/irritation, Hazard Category 2 (Skin Irrit. 2); Acute toxicity (inhal.), Hazard Category 4 (Acute Tox. 4); Aspiration hazard, Hazard Category 1 (Asp. Tox. 1); Carcinogenicity, Hazard Category 2 (Carc. 2); Specific target organ toxicity — Repeated exposure, Hazard Category 2 (STOT RE 2); Hazardous to the aquatic environment — Chronic Hazard, Category 2 (Aquatic Chronic 2)	H226; H315; H332; H304; H351; H373; H411

(See the full text of the hazard statements in section 16)

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: Rinse eyes under running water for a minimum of 15 minutes, keep eyes open. If using contact lenses, remove them before washing eyes. Get immediate medical assistance.

Skin contact: Remove contaminated clothing carefully, so as not to contaminate the eyes. Begin immediate skin decontamination by washing with mild soap and water. Consult doctor in case of skin irritation.

Ingestion: Oral exposure is highly unlikely. Do not induce vomiting. If the victim is conscious, rinse his mouth with water. If the victim is unconscious, has convulsions or has difficulty swallowing, never induce vomiting or give him fluids. Seek medical assistance, showing this Safety Data Sheet.

Inhalation: In case of inhalation of the product or gases resulting from the thermal decomposition of the product, its combustion, or detonation, remove the victim from the contaminated area, take him to a fresh air area and keep him at rest. Consult a doctor if you have any symptoms.

In case of injuries caused by the detonation of the product, provide immediate medical help.

4.2 Most important symptoms and effects, both acute and delayed

Product exposure: Eye irritation.

Exposure to thermal decomposition gases, combustion, or detonation: Methaemoglobinaemia, pulmonary edema, skin irritation and irritation of the eyes, mouth, throat and other affected tissues.

4.3 Indications of any immediate medical attention and special treatment needed

Inhalation of gases from a fire, thermal decomposition of the product or detonation, containing oxides of nitrogen and ammonia, can cause irritation and corrosive effects on the respiratory system. Administer oxygen (if a competent professional is present) especially if the area around the mouth is bluish (methaemoglobinaemia). After exposure to toxic gases, the victim must remain under medical supervision for at least 48 h, in order to prevent the possible occurrence of pulmonary edema.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

If fire reaches explosives, DO NOT attempt to fight it out, as there is a risk of mass explosion.

5.2 Special hazards arising from the substance or mixture

When burning/detonating it produces dangerous gases, such as nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), ammonia (NH₃) and amines.

5.3 Advice for firefighters

Prevent fire from reaching the containers by flooding the area with large amounts of water.



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If time permits, remove the containers to a safe area.

Cool exposed containers and structures with water spray. Risk of explosion in the event of fire.

To fight fires that could potentially involve this material but have not yet reached the containers, self-contained breathing apparatus and full chemical protection suit must be worn.

In case of fire: evacuate the area. Do not fight fires involving explosive material. Do not fight fires involving containers of these products. Withdraw from the area and let the fire burn. Remove everyone from the vicinity of the fire. Alert the authorities.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

In case of spillage, remove sources of ignition. Keep unauthorized personnel out of the premises. Avoid contact with eyes, skin and clothing. Use equipment for the protection of hands, feet and body. (see point 8)

6.2 Environmental precautions

Keep the product from reaching the soil or water environment.

6.3 Methods and materials for containment and cleaning up

With gloves, collect the product into a clean and properly identified container. Do not use electric discharge or sparking tools. Use wooden or aluminum tools, for example. Detonation or neutralization of the spilled product must be carried out by competent authorities or technicians.

6.4 Reference to other sections

The control measures provided for in point 8 must be taken.

Waste and materials contaminated with the product must be treated as explosive waste according to point 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical recommendations: Do not use electric discharge or sparking tools.

Always wear protective equipment for your hands, feet and body.

Before loading, vehicles and containers should be carefully cleaned out. [CV2 (1), item 7.5.11 of ADR]

It is forbidden to smoke, use fire or naked flame in vehicles that carry explosives, either in its vicinity or during loading and unloading. The smoking ban also applies to the use of electronic cigarettes and similar devices. [S1 (3), item 8.5 of ADR]

Do not subject the product to shock or friction. Do not open the packaging during transport.

Avoid exposure to gases resulting from the thermal decomposition of the product, its combustion, or detonation.

Promote adequate ventilation of explosive detonation sites.

General hygiene recommendations in the workplace: Do not eat, drink or smoke in the work areas. Remove contaminated clothing and protective equipment after handling the product. Wash hands before breaks and after work. Do not deal with the explosive while under the influence of alcohol or drugs.

7.2 Conditions for safe storage, including any incompatibilities

Recommendations: Store packaging in a cool, dry and well-ventilated place.

Keep the packages closed. Avoid exposure to heat and direct sunlight. Do not allow the product to come into contact with oxidizable materials.

Incompatible products and materials: strong acids and bases, flammable or combustible products, oxidizers and primary explosives.

Explosives storage is subject to specific legislation (Decreto-Lei No. 139/2002, of May 17, changed by the Decreto-Lei No. 87/2005, of May 23). It should only be stored with materials from the same compatibility group.

7.3 Specific end uses

Civil explosive for demolition/blasting rock.

Follow the recommendations defined in subsections 7.1 and 7.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No occupational or biological exposure limit values are defined for any of the substances in the mixture.

However, during the detonation of the explosive, there is the formation of atmospheric contaminants subject to occupational exposure limit values. These contaminants should be considered when using explosive emulsions in confined environments, as in underground mining and in the opening of tunnels, galleries and caves. The occupational exposure limit values are as follows:



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Substance	National limit value up to 21/08/2023		National limit value from 22/08/2023		Legal basis
	8 hours	Short term	8 hours	Short term	
Nitrogen monoxide	30 mg/m ³ 25 ppm	- -	2,5 mg/m ³ 2 ppm	- -	Decreto-Lei No. 24/2012, from the current text [Directive 98/24/CE, Directive (UE) 2017/164, Directive (UE) 2019/1831]; * NP 1796: 2014
Nitrogen dioxide	0,2 ppm*	-	0,96 mg/m ³ 0,5 ppm	1,91 mg/m ³ 1 ppm	
Carbon monoxide	25 ppm*	-	23 mg/m ³ 20 ppm	117 mg/m ³ 100 ppm	
Carbon dioxide	9000 mg/m ³ 5000 ppm	-	9000 mg/m ³ 5000 ppm	-	

8.2 Exposure controls

8.2.1 Adequate technical controls

Regarding product exposure, there is no additional information to that provided in section 7.

With regard to the control of atmospheric contaminants generated during the detonation of the explosive, adequate ventilation should be ensured whenever detonation occurs in confined environments, such as underground mining and tunneling. The concentration of atmospheric contaminants should be evaluated to define the necessary technical measures, which may include efficient ventilation, increased interruption times for ventilation work, control of exposure times, among others.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/face protection:	No eye or face protection is required under normal conditions of use and good ventilation.
Skin protection:	Wear protective clothing; use PVC or PVA gloves; wear protective shoes.
Respiratory protection:	Respiratory protection is not required when handling the explosive. After detonation, depending on the technical measures adopted (ventilation, waiting times, or others) and the results of the monitoring of atmospheric contaminants, it may be necessary to use a mask with a protective filter for nitrogen monoxide, nitrogen dioxide, carbon monoxide and/or ammonia (regulation EN 14387).



8.2.3 Environmental exposure control

Prevent the product from reaching the water environment. Do not leave product residues at the application site.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Physical state:	Solid (granulated)
b) Color:	Pink
c) Odor:	Characteristic odor of diesel
d) Melting/freezing point:	Not determined/Not applicable
e) Boiling point:	Not determined/Not applicable
f) Flammability:	Flammable
g) Upper and lower explosivity limits:	Not applicable to solids
h) Flash point:	Not applicable to solids
i) Autoignition temperature:	Not applicable to solids
j) Decomposition temperature:	Not applicable
k) pH:	Not determined/Not applicable
l) Kinematic viscosity:	Not applicable to solids
m) Solubility:	Relatively soluble in water
n) n-Octanol/water partition coefficient:	Not applicable to the mixture
o) Vapor pressure:	Not applicable (solid mixture)
p) Density and/or relative density:	Density (specific mass): 805 - 855 kg/m ³ (0.805 – 0.855 g/cm ³)
q) Relative vapor density:	Not applicable to solids
r) Particle characteristics:	Particle diameter: 0.5 - 2 mm

9.2 Other information

Explosive 1.5 D;
Impact Sensitivity (EN 13631-4): ≥ 50 J;
Friction Sensitivity (EN 13631-3): ≥ 368 N;
Thermal Stability (EN 13631-2): Did not react at 75 °C (348.15 K) for 48 hours.



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10. STABILITY AND REACTIVITY

10.1 Reactivity

Explosive product. The mixture is not reactive under the conditions recommended for handling, transport and storage (see section 7). The product reacts if mixed with flammable products, oxidizers, organic peroxides, corrosive substances and primary explosives.

10.2 Chemical stability

The mixture is stable under normal environmental conditions and under the foreseeable conditions of temperature and pressure during handling, transport and storage (see section 7). No change in the physical appearance of the mixture is expected within its expiration date (12 months).

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions in contact with incompatible materials.
The product reacts if mixed with primary explosives, causing an explosion.
Risk of explosion by shock, fire and other sources of ignition.

10.4 Conditions to avoid

Temperature: Avoid exposure or contact with extreme temperatures [below 243,15 K (-30 °C) and above 343,15 K (+70 °C)].
Pressure: Avoid exposure to high pressure.
Shock: Avoid shocks.
Friction: Avoid product friction.
Ignition: Avoid sources of ignition.

10.5 Incompatible materials

Flammable, oxidizing products, organic peroxides, corrosive substances and primary explosives.

10.6 Hazardous decomposition products

Thermal decomposition, combustion and detonation produce dangerous gases, such as nitrogen oxides (NO_x), carbon monoxide (CO) and carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

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

- Acute toxicity: Based on available data, the classification criteria are not met.
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/eye irritation: Classified mixture - Serious eye damage/eye irritation, Hazard Category 2 (Eye irrit. 2); H319: Causes serious eye irritation.
- Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Carcinogenicity, Hazard Category 2 (Carc. 2); H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met.
- Specific target organ toxicity (STOT) - repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

11.2 Information on other hazards

None of the substances present in the mixture at a concentration equal to or greater than 0.1% by mass exhibits endocrine-disrupting properties.

Other information: No information is available regarding other adverse health effects.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data are available on the toxicity of the mixture.

12.2 Persistence and degradability

Regarding the ammonium nitrate constituent:

High biodegradability study not required because the substance is inorganic (Annex VII of REACH).



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Regarding the diesel constituent [according to the supplier's SDS]:
Biodegradation: Partially biodegradable. Not persistent according to IMO criteria.

12.3 Bioaccumulative potential

Regarding the constituent ammonium nitrate [according to the supplier's SDS]: Not applicable. Inorganic substance.

Regarding the diesel constituent [according to the supplier's SDS]: It must not cause bioaccumulation through food chains in the environment environment.

12.4 Mobility in soil

Regarding the constituent ammonium nitrate [according to the supplier's SDS]:
Being an inorganic substance, it has a low adsorption potential.

Regarding the diesel constituent [according to the supplier's SDS]:
Spills can penetrate the ground, causing contamination of groundwater. This material can accumulate in sediments.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment of the mixture was not performed.

Regarding the constituent ammonium nitrate [according to the supplier's SDS]:
Not applicable (inorganic substance).

Regarding the diesel constituent [according to the supplier's SDS]: The mixture does not meet the criteria applicable to PBT or vPvB mixtures, in accordance with Annex XIII of REACH Regulation (EC) No. 1907/2006.

12.6 Endocrine disrupting properties

None of the substances present in the mixture at a concentration equal to or greater than 0.1% by mass have disruptive properties. of the endocrine system.

12.7 Other adverse effects

No other adverse effects are known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from explosives and contaminated packaging is eliminated by combustion, detonation, or by chemical means, using small fractions in each operation, under the Decreto-Lei No. 139/2002 of May 17, altered by Decreto-Lei No. 87/2005, of May 23.
Explosive products are disposed of under the guidance of the technician in charge at the site.

Note: In accordance with paragraph e) of article 2 of the General Waste Management Regime, approved by Decreto-Lei no. 102-D/2020, of 10 December, in the current wording, explosives are excluded from the scope of application of this regime.

Do not abandon waste or discharge it into collectors or the water environment.

14. TRANSPORT INFORMATION

14.1 UN number or ID number: ONU 0331

14.2 UN proper shipping name: EXPLOSIVE, BLASTING, TYPE B (AGENT, BLASTING, TYPE B)

14.3 Transport hazard classes:

RID/ADR/ADN (by rail/road inland waterways):	1.5D
IMDG class (by sea)	1.5D



Tunnel restriction code [ADR]: B1000C

14.4 Packing group: Not applicable.

14.5 Environmental hazards: The mixture is not dangerous for the environment according to the criteria of the UN standard regulations (IMDG, ADR, RID and ADN codes), nor a marine pollutant, according to the IMDG code.

14.6 Special precautions for user: Not applicable.

14.7 Maritime transport in bulk according to IMO instruments: Not applicable.



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15. REGULATORY INFORMATION

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

Hazard category Seveso (Directive No. 2012/18/UE, the European Parliament and the Council, of July 4, 2012; Decreto-Lei No. 150/2015 of August 5): P1a Explosives (Lower level requirements: 10 t; Top level requirements: 50 t)

Mixture not covered by regulations:

- Regulation (CE) No. 1005/2009, of September 16, 2009, on substances that deplete the ozone layer;
- Regulation (CE) No. 850/2004, of April 29, 2004, on persistent organic pollutants;
- Regulation (EU) No. 649/2012, of July 4, on the export and import of dangerous chemicals.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. OTHER INFORMATION

Safety Data Sheet review:

This revision replaces revision 1, dated 2020/05/15, effective 2022/12/06.

Changes introduced:

General: adequacy of the designation of sections and sub-sections to Regulation (EU) no. 2020/878, of 18 June 2020; update of applicable legal references;

Section 9 - Reorganization and updating of information on the physical and chemical properties of the mixture;

Section 11: Introduction of subsection 11.2 - Information on other hazards;

Section 12: Introduction of subsection 12.6 - Endocrine disrupting properties;

Section 16 - Introduction of the acronyms CLP, ECHA, IMO/OMI, ID Number, PSP, PVA, PVC, REACH, SOLAS and UNEC in the legend; update of bibliographic references; introduction of training recommendations.

Subtitle:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - Agreement concerning the International Transport of Dangerous Goods by Road

CLP - Classification, Labelling and Packaging

ECHA - European Chemicals Agency

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IMO - International Maritime Organization

LER - European Waste List

MEMU - Mobile Explosives Manufacturing Unit

mPmB - Very Persistent and Very Bioaccumulative Substances

Número de ID - Identification number of the substance, mixture or article

ONU - United Nations Organization

PBT - Persistent, Bioaccumulative and Toxic Substances

PSP - Public Security Police [Policia de Seguranca Pública]

PVA - Polyvinyl acetate

PVC - Polyvinyl chloride

REACH - Registration, Evaluation and Authorization of Chemicals

RID - International Rail Transport of Dangerous Goods

RTMP - Recommendations regarding the Transport of Dangerous Goods (from the UN)

SOLAS - International Convention for the Safety of Life at Sea

UNEC - United Nations Economic Commission for Europe

Bibliography references:

Regulation (CE) No. 1907/2006, of December 18, 2006 (REACH), in the current wording (version as of 2022/10/14)

Regulation (CE) No. 1272/2008, of December 16, 2008 (CLP), in the current wording (version as of 2022/03/01)

Regulation (EU) 2020/878, June 18th

Directive 2012/18/EU of the European Parliament and of the Council, July 4th

Regulation (EU) 2019/1148, of 20 June (explosive precursors)

Council Directive 80/181/EEC of 20 December 1979, as amended

Directive 98/24/EC, April 7th

Directive (EU) 2017/164, January 31th

Directive (EU) 2019/1831, October 24th

Decreto-Lei n.º 41/2018, June 11th

Decreto-Lei n.º 62/2021, July 26th (explosive precursors)

Decreto-Lei n.º 76/2020, September 25th (International System of Units)

Decreto-Lei n.º 139/2002, of May 17th, amended by Decreto-Lei n.º 87/2005, May 23rd

Decreto-Lei n.º 102-D/2020, of December 10th, in the current wording (version as of 2021/08/10)

Decreto-Lei n.º 82/2003 of 23 April, amended by Decreto-Lei n.º 63/2008 of April 2nd and Decreto-Lei n.º 155/2013 November 5th



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Decreto-Lei n.º 98/2010, August 11th
Decreto-Lei n.º 150/2015, August 5th
Decreto-Lei n.º 293/2009, October 13th
Decreto-Lei n.º 41-A/2010, of April 29th, in the current wording (version as of 2021/11/17)
Portaria n.º 309-A/2021, December 17th (land transport of dangerous goods)
Decreto-Lei n.º 24/2012 of February 6th, in the current wording (version as of 2021/01/06)
ADR 2021 - Acordo relativo ao transporte internacional de mercadorias perigosas por estrada, May 2021, Tutorial – Conteúdos e tecnologia, Lda.
Código IMDG 2020 - Código Marítimo Internacional das Mercadorias Perigosas
Safety data sheets for the substances present in the mixture (provided by the respective suppliers)
Manual for Intervention in Emergencies with Chemical, Biological and Radiological Hazardous Materials, National Civil Protection Authority, June 2011, ISBN: 978-989-8343-08-6.
ECHA website: <https://echa.europa.eu/en/information-on-chemicals>
REACH & CLP national website: <http://www.reachhelpdesk.pt>
UNECE website: <https://www.unece.org>

Mixing classification method:

Physical hazards: Test Series 1 to 8 of Part 1 of the UN RTMP (Recommendations relating to the Transport of Dangerous Goods), Manual of Tests and Criteria;
Health and environmental hazards: Based on the classification data of the mixture components, by applying the defined criteria in parts 3 and 4 of Annex I of the CLP.

List of relevant hazard statements and precautionary statements:

H205: May mass explode in fire.
H226: Flammable liquid and vapour.
H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H373: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234: Keep only in original packaging.
P250: Do not subject to grinding/shock/friction.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P370+P372+P380+P373: In case of fire: evacuate area. Explosion risk. DO NOT fight fire when fire reaches explosives.
P501: Dispose of contents/container in accordance with national regulations (Decreto-Lei No. 139/2002 of May 17, changed by the Decreto-Lei No. 87/2005, of May 23).

Other relevant precautionary recommendations applicable to the mixture, but not included on the label by imposing the principles of precedence (Article 28 of the Regulation (CE) No. 1272/2008):

P401: Store in accordance with national regulations (Decreto-Lei No. 139/2002 of May 17, changed by the Decreto-Lei No. 87/2005, of May 23).

Precautionary statements associated with other hazard classes of the mixture (other than "Explosive"):

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P264: Wash the hands thoroughly after handling.
P273: Avoid release to the environment.

Training recommendations: Training should be regularly provided to workers based on the information contained in this sheet safety data and specific conditions of use of the mixture, to ensure the protection of workers' health and the environment.