

## Section 1. Identification of the substance or mixture and of the Company / Undertaking

### 1.1. Product identification:

Product name : **AMTRA PHOSPHATE REDUCT**

Commercial code: A3AM0270 - A3AM0271

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

Alumina activated  
Adsorbent product in the professional and consumers sectors .  
Currently no uses advised against have been identified.

### 1.3. Details of the supplier of the material safety data sheet:

CROCI S.p.A.  
Via S.Alessandro, 8  
21040 Castronno (VA) - Italy  
Tel. +39 0332 870860  
Fax. +39 0332 462439

e-mail Technical Responsible: [matteo.gamberoni@croci.net](mailto:matteo.gamberoni@croci.net). Phone number: +39 0332 870860

### 1.4. Emergency Phone Number:

Florence Poison Center: Telephone +39 055 794 7819 (CAV-Careggi Hospital in Florence).  
Genoa Poison Center: Telephone +39 010 563 6245 (Scientific Institute G. Gaslini).  
Turin Poison Center : Telephone +39 011/6637637 (SG Baptist Hospital - Molinette of Turin).  
Pavia Poison Center: Telephone +39 038 224 444 (CAV IRCCS Fondazione Maugeri-Pavia).  
Rome Poison Center: Telephone +39 06 305 4343 (CAV Policlinico Gemelli-Rome).  
Rome Poison Center: Telephone +39 06499780 00 (CAV Policlinico Umberto I-Rome).  
Naples Poison Center: Telephone +39 081 747 2870 (CAV Cardarelli Hospital-Naples).  
Milan Poison Centre: Telephone +39 02661010 29 (CAV Niguarda Ca 'Granda - Milan) (H-24)  
Bergamo Poison Centre: Telephone 800883300 (Hospital Papa Giovanni XXIII)

## Section 2. Hazards Identification

### 2.1. Classification of the substance or mixture

2.1.1 Classification under the Regulation 1272/2008: The preparation is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) and subsequent amendments

**2.2. Labeling elements:** Danger labeling under the Regulation (EC) 1272/2008 (CLP) and subsequent amendments.  
Hazard symbols: None

Warnings: None

Hazard statements: None

Precautionary Statements: None

Product not intended for the uses foreseen by Dir.2004 / 42 / CE.

### 2.3. Other hazards:

This product does not meet the criteria for PBT or vPvB.

### Section 3. Composition / Information on the ingredients

**3.1. Substances:** Not applicable

**3.2. Mixtures:**

Aluminum oxide                      cas number: 1344-28-1                      CLP classification: none                      Weight (%): 95

Impurities considered significant for the classification of the substance: none

### Section 4. First aid measures

**4.1 Description of first aid measures:**

**Eye contact:** Rinse with plenty of water (if possible remove any contact lenses). In case of eye irritation, consult a doctor.

**Skin contact:** Remove contaminated clothing; wash the skin with soap and water. In case of skin irritation, consult a doctor.

**Inhalation:** If breathing is difficult, take the injured person to fresh air and keep him at rest in a position that encourages breathing. In case of malaise consult a doctor.

**Ingestion:** Rinse mouth with water. In case of malaise consult a doctor.

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

Information not available

**4.3. Indication of any immediate medical attention and special treatment:**

No special treatments are provided.

### Section 5. Fire-fighting measures

**5.1. Extinguishing media:**

The product is not flammable. In the event of fire, use suitable extinguishing media, taking into account the presence of surrounding materials.

**5.2. Special hazards arising from the substance or mixture:**

none

**5.3. Recommendations for those involved in extinguishing fires:**

Always wear the complete fire protection equipment: protective helmet with visor, fireproof clothing, intervention gloves and self-contained breathing apparatus.

### Section 6. Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures:**

Use protection devices for breathing in case of dust dispersed in the air. Wear dust-proof gloves. Avoid dispersing dust by spraying the product with water if there are no contraindications.

**6.2. Environmental precautions:**

Prevent the product from flowing into drains, surface waters and groundwater.  
Avoid dust formation and dispersion in the air. Recover the material for recycling if possible.

**6.3. Methods and materials for containment and cleaning up:**

Limit spillage to a minimum. Cover the drains. Collect as much as possible and transfer into plastic containers for recovery. Dispose of the spilled product in accordance with local and national legislation. Thoroughly clean the affected area to eliminate residual contamination.

**6.4. Reference to other sections (see section 8 and 13):**

For information on handling, refer to SECTION 7.  
For information on personal protective equipment, refer to SECTION 8.  
For disposal information, refer to SECTION 13.

**Section 7. Handling and storage**

**7.1. Precautions for safe handling:**

Ensure good ventilation of the premises in the event that the processing operations involve the generation of dust. Avoid creating the conditions for creating dust. Avoid inhalation and contact with skin and eyes. Wear appropriate protective equipment. Do not mix wet alumina with electrolytic cells..

**7.2. Conditions for safe storage, including any incompatibilities:**

Store in closed, moisture-free containers due to the strongly hygroscopic characteristics of the product.

**7.3. Specific end uses:**

see section 1.2

**section 8. Exposure controls/personal protection**

**8.1. Control parameters:**

United States (OSHA)  
- PEL 5 mg / m<sup>3</sup> (respirable fraction)  
- PEL 15 mg / m<sup>3</sup> (total dust)  
Germany  
- PEL 10 mg / m<sup>3</sup> (inhalable dust)  
- PEL 3 mg / m<sup>3</sup> (respirable dusts)  
Great Britain  
- PEL 10 mg / m<sup>3</sup> (inhalable dust)  
- PEL 4 mg / m<sup>3</sup> (respirable dusts)

**8.2. Exposure controls:**

Operate in adequately ventilated areas to control the suspended dust that may develop.

**Skin protection:**

Wear work clothes with long sleeves and safety shoes for professional use.

**Hand protection**

Wear latex, PVC or equivalent work gloves. For the final choice of the material, evaluate its degradation, break time and permeation.

**Eye protection**

Wear airtight protective glasses.

**Respiratory protection**

Use a dust mask or self-contained breathing apparatus.

**8.2.2 Environmental exposure checks**

Avoid creating favorable conditions for the development of dust with atmospheric emissions.

## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical:

Physical form: solid ( white sphere)

Color: opalescent white

Odor: odorless

Odor detection threshold: NA (not available).

pH = 9-10

Melting point or freezing: 2030 °C

Boiling Point range: Not applicable

Distillation range: Not applicable

Flash Point: Not applicable

Evaporation Rate:Not applicable

Flammability of solids and gases: Not applicable

Upper limit of flammability: Not applicable

Lower explosive limit: Not applicable

Upper explosive limit: Not applicable

Vapor Pressure: Not applicable

Vapour density: Not applicable

Relative density: 3,99

Solubility: insoluble in water

N-octanol/water partition coefficient: Not applicable

Viscosity: Not applicable

### 9.2. Other information:

none

## Section 10. Stability and reactivity

### 10.1. Reactivity:

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

### 10.2. Chemical stability:

The mixture is stable under normal conditions of use and storage

**10.3. Possibility of hazardous reactions:**

In normal conditions of use and storage no dangerous reactions are predictable.

**10.4 Conditions to avoid:**

No dangerous reactions if used and stored according to specifications.

**10.5. Incompatible materials**

Incompatible with strong oxidizing agents. Contact with strong oxidants, especially nitric acid, can produce organic substances that can form explosive mixtures.

**10.6. Hazardous decomposition products:**

Thermal decomposition or combustion can release carbon oxides, nitrogen oxides or other toxic gases and vapors.

**Section 11. Toxicological information**

**11.1 Information on toxicological effects:**

**Acute toxicity:**

Based on the available data, the classification criteria are not met.

- Oral: acute toxicological classification method (OECD 401): LD50 > 15900 mg / kg p.c. (rat).
- Inhalation: standard acute toxicological classification method (OECD 403): LC50 (1h) = 7.6 mg / l.
- Skin: highly unlikely absorption. There are no known health effects.

**Skin corrosion / irritation:**

no significant effect.

**Serious eye damage / eye irritation:**

possible mechanical irritation.

**Respiratory or skin sensitization:**

Based on the available data any potential sensitization can be excluded.

**Germ cell mutagenicity:**

Based on the available data, the classification criteria are not met.

**Carcinogenicity:**

Based on the available data, the classification criteria are not met.

**Reproductive toxicity:**

Based on the available data, the classification criteria are not met.

**Specific toxicity for target organs:**

Information not available

**Danger in case of aspiration:**

Information not available.

**Section 12. Ecological information**

**12.1 Toxicity:**

The classification criteria are not met.

The tests carried out on aluminum hydroxide and aluminum oxide according to OECD 203 (Salmo Trutta), OECD 202 (Daphnia Magna) and OECD 201 (Selenastrum Capricornutum) provided NOEC values - at 96h, 48h, 72h - above 100 mg / l. (ECHA data)

**12.2 Persistence and degradability:**

Not relevant for inorganic substances.

**12.3. Potential of bioaccumulation**

No bioaccumulation effect is expected for the product.

**12.4. Mobility in soil**

Not applicable.

**12.5. Results of PBT and vPvB assessment**

Conforms to Annex XIII of REACH (EC Regulation 1907/2006).

This product does not meet the PBT or vPvB criteria as the substance is inorganic.

**12.6. Other adverse effects**

Unknown.

Handle the product in compliance with the rules of good industrial hygiene and safety, avoiding to disperse it in the environment.

**Section 13. Disposal considerations**

**13.1. Waste treatment methods:**

See Directive 2008/98 / EC on waste, article 4).

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 (Legislative Decree 152/2006 and subsequent amendments and adjustments).

**CONTAMINATED PACKAGING**

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations (Legislative Decree 152/2006 and subsequent amendments and adjustments).

**Section 14. Transport information**

The product is not classified as hazardous based on the provisions of the current legislation on the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (ICAO / IATA).

**Section 15. Regulatory information**

**15.1. Standards and legislation on health, safety and environment specific for the substance or mixture:**

The product in this safety data sheet is not subject to specific community provisions in relation to the protection of human health or the environment.

In particular it is not subject to regulation based on the regulations specified below:

Regulation EC / 1005/2009 on substances that deplete the ozone layer;

Regulation EC / 850/2004 concerning persistent organic pollutants;

Regulation CE / 689/2008 on the import and export of dangerous chemical substances;

Directive 2012/18 / EU (ex Law Seveso) on the control of major-accident hazards related to certain dangerous substances;

Titles VII and VIII of the Reach Regulation EC / 1907/2006: authorizations and restrictions.

**15.2. Evaluation of chemical safety**

An evaluation of the chemical safety of the product has been made (Chemical Safety Report).

## Section 16. Other information

### An explanation of acronyms used with legend:

#### Training for workers:

The training of workers must envisage contents, updates and duration based on the risk profiles assigned to the work sectors to which they belong, according to the methods established by Legislative Decree 81/2008 ace.

#### Main bibliographic references and data sources:

Directive 1967/548 / EEC (and subsequent amendments and adjustments)

Directive 1999/45 / EC (and subsequent amendments and adjustments)

EC Regulation No. 1907/2006 (REACH) (and subsequent amendments and adjustments)

EC Regulation No. 1272/2008 (CLP) (and subsequent amendments and adjustments)

Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)

Regulation (EC) 453/2010 of the European Parliament

ECHA Agency Website

Legislative Decree 03/04/2006 No. 152 - Environmental regulations

Legislative Decree of 05/02/1997 No. 22 - Ronchi Decree

Legislative Decree of 09/04/2008 No. 81 - Consolidated text on the protection of health and safety in the workplace

#### Abbreviations and Acronyms:

**ADR:** European agreement concerning the international transport of dangerous goods by road

**ATEX:** Atmosphère Explosible

**CAS:** Chemical abstracts service

**CLP:** Classification, labeling and packaging

**EINECS:** European inventory of existing chemicals

**IATA:** International air transport association

**ICAO:** International civil aviation organization

**IMDG Code:** International maritime code for the transport of dangerous goods

**LC50:** Lethal concentration for 50% of organisms

**LD50:** Lethal dose for 50% of organisms

**OECD:** Organization for economic co-operation and development (OECD: Organization for Economic Cooperation and Development)

**PBT:** persistent, bioaccumulative, toxic

**REACH:** registration, evaluation, authorization and restriction of chemicals

**RID:** regulation concerning the inland transport of dangerous goods by rail

**vPvB:** very persistent, very bioaccumulative

**Note:** The information in this safety data sheet is based on our knowledge at the date of its publication. The information is provided for the sole purpose of facilitating use, storage, transport and disposal and should not be considered a specific quality guarantee. The user must make sure of the suitability and completeness of the information in relation to his particular use of the product.