

MATERIAL SAFETY DATASHEET FROST PROTECT

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

1.1 Product identifier

Commercial name product: Frost Protect

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

Fertilizers

Uses advised against: Uses other than those advised

1.3 Details of the supplier of the safety sheet Company: Adler

Agro S.L.U.

Address: C/ Mitgera nº 4

Polígono Industrial del Mediterráneo

46550 Albuixech (Valencia)

Phone number: + 34 96 140 22 69 E-mail:

adler@adleragro.com

1.4 Emergency telephone number

Emergency phone: + 34 96 140 22 69 (From 8:00 to 15:00 Monday to Friday)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

The product does not contain hazardous components according to European Regulation (EC) 1272/2008.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Due to the composition and the type of substances present in the preparation, no particular warnings are needed.

Inhalation.

Place the victim in the open air, keep him warm and at rest, if breathing is irregular or stops, practice artificial respiration. Eye contact.

Remove contact lenses, if present and easy to do. Flush eyes with clean, cool water for at least 10 minutes, pulling up on the eyelids and seek medical assistance.

Skin contact.

Remove contaminated clothing.

Ingestion.

Keep him at rest. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed not applicable

4.3 Indication of any immediate medical attention and special treatment needed not applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Appropriate extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Non-appropriate extinguishing media: a blast of direct water.

5.2 Special hazards arising from the substance or mixture

Fire can produce a dense black smoke. As a consequence of thermal decomposition, dangerous products can be formed: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to health.

Fire leftovers and contaminated water used in extinguishing must be disposed of in accordance with local regulations.

5.3 Advice for firefighter's further information:

Cool tanks, cisterns or containers near the source of heat or fire with water. Take into account the direction of the wind. Prevent products used in firefighting from entering drains, sewers or watercourses.

Fire protection equipment:

Depending on the extent of the fire, the use of protective suits against heat, self-contained breathing apparatus, gloves, goggles or facemasks, and boots may be necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

for exposure control and individual protection measures see section 8.

6.2 Environmental precautions

Try to prevent the material from entering drains or watercourses. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal considerations, see section 13. For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling:

For personal protection, see section 8. Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in workrooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:

Avoid formation of aerosol. Keep away from sources of ignition - No smoking. No sparking tools should be used. Take measures to prevent the buildup of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store according to local legislation. Observe the indications of the label. Store the containers between 5 and 35 °C, in a dry and well-ventilated place, away from sources of heat and direct sunlight. Keep away from points of ignition. Keep away from oxidizing agents and strongly acidic or alkaline materials. No Smoking. Send the invite to unauthorized people. Once the containers are opened, they must be carefully resealed and placed vertically to avoid spillage. Directive 2012/18 /EU (SEVESO III) do not affect the product.

7.3 Specific end use(s) Agriculture:

Fertilizer

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits no data available for this product.

8.2 Exposure controls

Engineering controls:

Effective exhaust ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:

- Respiratory protection: Use breathing mask with appropriate filter
- Hand protection: Use protective gloves
- Eye protection: Use goggles with lateral protection (EN 166 goggles) or facial protection screen
- Skin and body protection: Recommended to use working clothes, apron and boots
- Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Eyewash with distilled water must be available. Take off and wash contaminated clothes before using them again. Wash hands before breaks and immediately after using the product

Environmental exposure controls:

Try to prevent the material from entering drains or watercourses. If the product contaminates rivers and lakes or drains inform respective authorities

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid

Color: White

Odor: Characteristic

Odor threshold: No data available pH:

8 at 20 °C

Melting point/freezing point: No data available

Boiling point / range: No data available Flash point:
No data available

Evaporation rate: No data available

Flammability (solid, gas): Not flammable

Lower explosion limit: No data available Upper

explosion limit: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density: 1,11 g/cm³

Solubility: 100 %

Water solubility: Completely miscible in water

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information

There are no more physical-chemical properties relevant for security.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable in normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

 Unknown.

10.4 Conditions to avoid

Avoid extreme temperatures.

10.5 Incompatible materials

Avoid the following materials:

- Acids.

- Bases.
- Oxidizing agents.

10.6 Hazardous decomposition products

Depending on the conditions of use, the following products can be generated:

- Corrosive gases or vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Not classified based on available information. Skin corrosion/irritation:

Not classified based on available information. Serious eye damage/eye irritation:

Not classified based on available information.

Respiratory or skin sensitisation:

- Respiratory sensitisation: Not classified based on available information.
- Skin sensitisation: Not classified based on available information.

Germ cell mutagenicity:

Not classified based on available information.

Carcinogenicity:

Not classified based on available information.

Reproductive toxicity:

Not classified based on available information. STOT - single exposure:

Not classified based on available information. STOT - repeated exposure:

Not classified based on available information. Aspiration hazard:

Not classified based on available information.

Further information:

No further data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability There is no information available on the persistence and degradability of the product.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product:

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local regulation.

Contaminated packaging:

Empty remaining contents. Dispose of as unused product. Do not burn the containers, even after use. Remove used containers according to local legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number Not classified as dangerous goods according to ADR/RID/IMDG/ICAO/IATA.

14.2 Proper shipping name

Not classified as dangerous goods according to ADR/RID/IMDG/ICAO/IATA.

14.3 Transport hazard class

Not classified as dangerous goods according to ADR/RID/IMDG/ICAO/IATA.

14.4 Packing group

Not classified as dangerous goods according to ADR/RID/IMDG/ICAO/IATA.

14.5 Environmental hazards Not classified as dangerous goods according to ADR/RID/IMDG/ICAO/IATA.

14.6 Special precautions for user

Not classified as dangerous goods according to ADR/RID/IMDG/ICAO/IATA.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not classified as dangerous goods according to ADR/RID/IMDG/ICAO/IATA.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture The product is not affected by Regulation (EC) No. 1005/2009 of the European Parliament and of the Council, of September 16, 2009, on substances that deplete the ozone layer.

The product is not affected by Directive 2012/18 / EU (SEVESO III).

The product is not affected by Regulation (EU) No 528/2012 regarding the marketing and use of biocides. The product is not affected by the procedure established in Regulation (EU) No 649/2012, relative to the export and import of dangerous chemical products.

The product is affected by Regulation (EC) No. 2003/2003 of the European Parliament and of the Council regarding fertilizers.

15.2 Chemical safety assessment

No data available

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Not applicable

Full text of P Statements:

P102 Keep away from children's reach.

P270 Do not eat, drink or smoke during its use.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P412 Do not expose to temperatures above 50°C.

P302 + P352 IN CASE OF SKIN CONTACT: wash with abundant water. P305 + P351 +

P338 IN CASE OF EYE CONTACT: rinse thoroughly with water.

Classification codes:

Not applicable

Recommendations:

It is advisable to carry out basic training regarding occupational health and safety in order to handle the product correctly.

Full text of other abbreviations

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: International Rule for Transport of Dangerous Substances by Railway.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

Sections modified compared to the previous version:

None

References:

<http://eur-lex.europa.eu/homepage.html> <http://echa.europa.eu/Regulation>
(EU) 2015/830
Regulation (CE) 1907/2006
Regulation (EU) 1272/2013

Further information

The information provided in this Safety Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The information provided in this Safety sheet has been drawn up in accordance with Commission Regulation (EU) 2015/830 of May 28, 2015, which modifies Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, regarding the registration, evaluation, authorization and restriction of chemical substances and mixtures (REACH), which creates the European Chemicals Agency, amends Directive 1999/45/EC and repeals Council Regulation (EEC) No. 793/93 and

Directive 1980/1179/EEC, 1980/1179/EEC, 1980/1179/EEC and 2000/21/EC.

The sole purpose of this safety sheet is to communicate information that we consider important to our customers, but we are not legally obliged to provide an SDS of the substance or mixture described in this sheet, as it is not classified as dangerous.