

MATERIAL SAFETY DATA

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : **Hydrogel**
SYNONYMS : None
CHEMICAL FAMILY : Anionic polyacrylamide
MOLECULAR FORMULA : Polymer
MOLECULAR WEIGHT : Polymer

AGRARIA VERDE, LDA RUA CENTRAL DE MANDIM, 60 - 4475-023 MAIA - PORTUGAL
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2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS
COMPONENT CAS. NO. % TW/CEILING REFERENCE

No permissible Exposure Limits (PEL/TLV) have been established by OSHA or ACGIH.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR : Free-flowing off-white granular powder
STATEMENTS OF HAZARD : IMPORTANT! SPILLS OF THIS PRODUCT ARE VERY SLIPPERY WHEN WET

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:

Acute oral (rat) dermal (rabbit) LD50 values are estimated to be greater than 5.0 g/kg and greater than 2.0 g/kg, respectively. Inhalation of dust by rats to an overall concentration of 133 mg/m³ failed to produce mortality. This material produced mild skin irritation in only one of six rabbits tested, and did not produce eye irritation in any rabbits tested.

4. FIRST AID MEASURES

No specific first aid procedures are necessary for accidental exposure to this product.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT : Not applicable
FLAMMABLE LIMITS (% BY VOL) : Not applicable
AUTOIGNITION TEMP : Not applicable
DECOMPOSITION TEMP : Not applicable

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

As with many solids, any dust that is generated may be explosive if mixed with air in critical proportions and in the presence of a source of ignition. Use water, carbon dioxide or dry chemical to extinguish fires. Wear self-contained, positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Spilled material becomes very slippery when wet. Sweep up spills and place in a waste disposal container. Flush the area thoroughly with water and scrub to remove residual. If slipperiness remains, apply more dry-sweeping compound. Do not flush large quantity of the material to sewer.

7. HANDLING AND STORAGE

Spills should be scooped up or wiped up immediately, and spill area flushed with water. Maintained good housekeeping to control dust accumulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT (PPE)

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	:	Free-flowing off-white granular powder
BOILING POINT	:	Not applicable
MELTING POINT	:	Not applicable
VAPOR PRESSURE	:	Not applicable
SPECIFIC GRAVITY	:	Not applicable
VAPOR DENSITY	:	Not applicable
% VOLATILE (BY WT)	:	13
pH	:	Not applicable
SATURATED IN AIR (BY VOL)	:	Not available
EVAPORATION RATE	:	Not available
SOLUBILITY IN WATER	:	Swells

10. STABILITY AND REACTIVITY

STABILITY	:	Stable
CONDITIONS TO AVOID	:	None known
POLYMERIZATION	:	Will not occur
CONDITIONS TO AVOID	:	None known
INCOMPATIBLE MATERIALS	:	Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS	:	Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, ammonia, and/or oxides or nitrogen.

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the OSHA regulated components of this product is as follow: This product contains not OSHA regulated (hazardous) components.

12. ECOLOGICAL INFORMATION

No aquatic LC50, BOC, or COD data available
 OCTANOL/H₂O PARTITION COEF.: Not available

13. DISPOSAL CONSIDERATIONS

Disposal must be made in accordance with applicable governmental regulations.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	D.O.T SHIPPING INFORMATION	IMO SHIPPING INFORMATION
SHIPPING NAME :	Not applicable/Not Regulated	Not applicable/Not Regulated
HAZARD CLASS/ PACKING GROUP :	Not applicable	Not applicable
UN NUMBER :	Not applicable	Not applicable
IMDG PAGE :	Not applicable	Not applicable
D.O.T HAZARDOUS SUBSTANCES :	(Product Reportable Quantity) Not applicable	Not applicable
TRANSPORT LABEL REQUIRED :	None required	None required
	ICAO/IATA	TRANSPORT CANADA
SHIPPING NAME :	Not applicable/Not Regulated	Not applicable/Not Regulated
HAZARD CLASS :	Not applicable	Not applicable
SUBSIDIARY CLASS :	Not applicable	Not applicable
UN / ID NUMBER :	Not applicable	Not applicable
PACKING GROUP :	Not applicable	Not applicable
TRANSPORT LABEL REQUIRED :	None required	None required
PACKING INSTRUCTIONS :	Passenger Not applicable Cargo Not applicable	Not applicable
MAX NET QTY :	Passenger Not applicable Cargo Not applicable	Not applicable
	ADDITIONAL TRASPOT INFORMATION	
TECHNICAL NAME (N.O.S.) :	Not applicable	

15. REGULATORY INFORMATION**INVENTORY INFORMATION**

- US TSCA : This product is manufactured in compliance with all provisions of the Toxic Substances control Act, 15 U.S.C.
- CANASA DSL : Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.
- EEC EINECS : The EEC Inventory information for this products MSDS had not been established yet.

OTHER ENVIRONMENTAL INFORMATION

The following components are defined as toxic chemicals subject to reporting requirements of Section 313 of Title III and of 40 CFR 372 or subject to other EPA regulations.

COMPONENT	CAS. NO.	%	TPQ(lbs)	RQ (lbs)	S313	RCRA	TSCA 12B
This product does not contain any components regulated under these sections of the EPA							

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA
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Not applicable under SARA TITLE III

16. OTHER INFORMATION**NFPA HAZARD RATING (National Fire Protection Association)**

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| Fire | 1 | FIRE | : Materials that must be preheated before ignition can occur. |
| Health | 0 | HEALTH | : Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material. |
| Reactivity | 0 | REACTIVITY | : Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water. |
| Special | - | | |

REASON FOR ISSUE:

New Format

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