

Card No.: KCh/LP/81	Trade name: Agents for fertilizers: - AGROWAX - SALWAX - GRANWAX
Date of edition: 01.06.2015 Date of update: 06.09.2018	Edition 1.2

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

1.1. Product identifier

Trade name: **Agents for fertilizers:**
- **AGROWAX**
- **SALWAX**
- **GRANWAX**

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

The product is used for protecting granules of fertilizers against solidification and dust.

1.3. Details of the supplier of the safety data sheet

Producer: Polwax S.A.
Address: ul.3 Maja 101, 38-200 Jasło, Poland
Phone number: +48 (13) 44 66 242 / +48 (32)32 37 558
E-mail: kch@polwax.pl

1.4. Emergency telephone number

European emergency phone number: 112

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Serious damage to eyes,
Category 1 H318 Causes serious eye damage

Hazardous to the aquatic environment – acute,
Category 1 H400 Very toxic to aquatic life

Hazardous to aquatic environment – chronic,
Category 1 H410 Very toxic to aquatic life with long lasting effects

2.2. Label elements

Hazard pictograms:



Signal word:
Danger

Hazard statements:
H318 Causes serious eye damage
H400 Very toxic to aquatic life

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H410 Very toxic to aquatic life with long lasting effects

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P273 Avoid release to the environment

P391 Collect spillage

P501 Dispose of contents/container to into a labeled bulk container for later recovery or disposal in accordance with applicable regulations.

2.3. Other hazards

The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous ingredients:	Contents	Regulation (EC) 1272/2008	
		Category of danger	Hazard Statement
Aliphatic amines with carbon chain C12-C18 (hydrogenated fatty alkyl)	Content: < 9,9% (classification based on highest concentration) CAS: 90640-32-7/61788-45-2 EINECS: 292-550-5/262-976-6 REACH: 01-2119473799-15-0002	Eye Dam. 1 Skin Irrit. 2 STOT RE 2 Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 1	H373 H304 H318 H315 H400 H410

Meaning of symbols according to Regulation 1272/2008:

Eye Dam. 1 - Serious damage to eyes, Category 1
 Skin Irrit. 2 - Skin irritation, Category 2
 STOT RE 2 - Specific target organ toxicity (STOT) – repeated exposure, Category 2
 Asp. Tox. 1 - Aspiration Hazard
 Aquatic Acute 1 - Hazardous to the aquatic environment – Acute, Category 1
 Aquatic Chronic 1 - Hazardous to the aquatic environment – Chronic, Category 1

H 304 - May be fatal if swallowed and enter airways
 H 318 - Causes serious eye damage,
 H 315 - Causes skin irritation,
 H 373 - May cause damage to organs through prolonged or repeated exposure,

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- H 400 - Very toxic to aquatic life.
H 410 - Very toxic to aquatic life with long lasting effects

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Due to low volatility, the risk of inhalation is actually excluded, however possible if the product gets overheated.

Provide access to fresh air. Provide medical assistance in case of any health problems.

Eye contact

Flash with water for at least 15 minutes (with eyelids rolled up). Seek medical advice. *NOTE! Persons exposed to pollution of eye should be instructed about necessity and manner of immediate rinse.*

Skin contact

The prolonged contact with skin may cause irritation. Liquid product may cause burns. Take off dirty protective clothing in case of contact. Rinse skin with water and soap. In case of any skin irritation, consult with a doctor. Wash up clothing before wearing again.

Intake

Due to the solid form at ambient temperature, there is little probability of consumption of the product. If swallowed, rinse mouth with water. However, if discomfort occurs seek medical advice.

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

Symptoms and effect: Irritating effects on eyes and mucous membranes of the nose and throat as result of prolonged inhalation of vapors and fumes in high concentration. Prolonged skin contact may cause irritation. The molten product may cause burns.

4.3. Indication of any immediate medical attention and special treatment needed

In each of the above mentioned cases if the problems persist, call a physician immediately or take the victim to a hospital, show packaging or label.

SECTION 5: FIREFIGHTING MEASURES

General Recommendations

- immediately notify fire brigade,
- notify the neighbourhood of the fire,
- ensure the emergency route,
- remove from the area of danger all persons not taking part in the emergency action, if necessary, order evacuation,
- containers exposed to fire or high temperature should be cooled with water.

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5.1. Extinguishing media

Suitable extinguishing media

Use dry chemicals, foam. Carbon dioxide, sand or soil can be used for putting out small fires only.

Inappropriate extinguishing media:

Water may be used only for cooling the containers exposed to flame or heat.

5.2. Special hazards arising from the substance or mixture

Fire extinguishing danger:

Under the influence of high temperature, the fumes heavier than the air can be emitted, and they can spread at the ground level, where upon contact with a source of fire they might cause further ignition. Burning product might float on the surface of water.

Dangerous substances of burning and thermal decomposition:

Carbon monoxide (CO), nitrogen oxides

Dangerous reactions:

Only in a contact with the strong oxidizing agents.

Ways of putting out a fire:

The area of fire should not be entered without appropriate protection (clothing, equipment). Firefighting should be realised from a safe distance.

Product vapours should be dispersed by sprayed stream of water. The heat may cause pressure increase and bursting of closed containers, which conduces to spreading of fire and risk of burning and injury. The containers exposed to the action of fire or high temperature should be cooled down with water from a safe distance, and – if possible – removed from the area of danger.

5.3. Advice for firefighters

Fires in closed or poorly ventilated areas can be extinguished only by trained firefighters equipped with protective clothing and approved breathing apparatus with independent air supply.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General recommendation:

- Immediately report the situation to the services responsible for fire and environmental protection.
- All the people not taking part in the rescue operation should be evacuated from the area of danger, and the access of strangers should be minimised. The product quickly solidifies in room temperature.
- Surfaces covered with solidified product are slippery.

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6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Risk control measures and handling of the product described in paragraphs 7 and 8

For emergency responders: Wear antistatic protective clothing, gloves (nitrile rubber, NBR) and non-slip shoes.

6.2. Environmental precautions

Product must not be allowed to enter into drainage or sewers because its solidification may block the system.

6.3. Methods and material for containment and cleaning up

Due to the high pour point, product spills quickly solidify, which facilitates its disposal. Spilled (solidified) product should be collected with available equipment and placed in a labeled container for later recovery or disposal in accordance with applicable regulations.

6.4. Reference to other sections

Risk control measures and handling of the product described in paragraphs 7 and 8.
Disposal - paragraph 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

When working with the product should follow the general rules and regulations of fire safety. During handling apply mechanical ventilation - exhaust. Use the tools not causing sparks.

Protect the product from contact with an open fire.

Avoid contact with skin and eyes and inhalation of vapors in case of overheating of product.

Wear protective clothing and protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry room equipped with a ventilation system. In the area of the magazine do not smoke, do not use open fire and sparking devices.

Packaging should be sealed and properly labelled, placed away from heat sources and strong oxidizing agents. Avoid exposure to direct sunlight. Packaging should protect the product against moisture, mechanical and air pollution.

The product in liquid (or solid) form should be stored in closed tanks, equipped with a heating system.

Storage Temperature

In the solid state at room temperature. In a liquid state at a temperature of 75-80 °C.

Do not exceed temperature 95°C.

Package

Use the packaging resistant to the action of hydrocarbons, if possible original packaging of the producer.

7.3. Specific end use(s)

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit has been established for ingredients of the product in following legal acts:

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC with later amendments.

8.2. Exposure controls

Execute research of required physical and chemical factors in environment of work.
 Use gloves resistant to oil, rubber boots, standard protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Solid with consistence of polish, in yellow to brown colour
Odour:	petroleum with sensible odour of ammonia
Odour threshold	not tested
pH	slightly alkaline (r-aq)
Melting point/freezing point	45,0 – 70,0°C
Initial boiling point and boiling range	min. 300°C
Flash point:	min. 200°C (open crucible method)
Evaporation rate	not tested
Flammability (solid, gas)	not classified as flammable
Upper/lower flammability or explosive limits	under normal conditions of use does not form explosive vapours
Vapour pressure	0-20 Pa at 80°C
Vapour density	not tested
Relative density	~ 0,850 g/cm³ (at 15°C)

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Solubility(ies)	insoluble in water, soluble in hydrocarbon based solvents
Partition coefficient: n-octanol/water	not tested
Auto-ignition temperature	min. 300°C
Decomposition temperature	min. 350°C
Viscosity	4-15 mm²/s at 100°C
Explosive properties	not applicable - not classified as explosive
Oxidising properties	not applicable - not classified as oxidizing

- 9.2. Other information
Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Under normal storage conditions does not manifest the tendency to dangerous reactions

10.2. Chemical stability

Stable under normal conditions. Do not exceed temperature 95°C due to possibility of decomposition of amine.

10.3. Possibility of hazardous reactions

No information about the possibility of hazardous reactions.

10.4. Conditions to avoid

Avoid exposure to high temperature. Do not use in the vicinity of open flames and other sources of ignition

10.5. Incompatible materials

Shows no tendency to dangerous reactions. Avoid contact with strong oxidizing agents.

10.6. Hazardous decomposition products

Under conditions of incomplete combustion may produce carbon monoxide (CO) and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation:

Vapours and clouds – irritation of the nose and throat mucous membrane.

Contact with eyes:

May cause irritation.

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Contact with skin:

As above, liquid product may cause light burns. Prolonged contact might cause skin irritation.

Ingestion:

Orally not toxic.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Under normal conditions of use does not cause hazard to soil and water environment.

12.2. Persistence and degradability

No data

12.3. Bioaccumulative potential

It does not contain substances classified as PBT or vPvB

12.4. Mobility in soil

Solidifies at ambient temperature. Lack of ability to migrate in the soil.

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

In the case of spillage into the water freezes and can move on its surface.

SECTION 13: DISPOSAL CONSIDERATIONS

Classification of waste material:

Identification code: **05 01 99 - other waste material, not classified**

Waste material is not classified as dangerous.

13.1. Waste treatment methods

The product which lost its properties (as a result of e.g. contamination) should be recovered to the best of abilities by means of filtration and refining. Product not suitable for utilisation as well as contaminated waste material (e.g. as a result of spillage) should be stored only in marked places.



Dispose of in accordance with local and national regulations.

Single-use packages should be disposed of in accordance with binding disposal regulations.

Multiple-use packages can be used again after purification.


SECTION 14: TRANSPORT INFORMATION

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- 14.1 UN number UN3077
- 14.2 UN proper shipping name
ADR 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amine, hydrogenated tallow alkyl), ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amine, hydrogenated tallow alkyl), MARINE POLLUTANT
IMDG
IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amine, hydrogenated tallow alkyl),
- 14.3 Transport hazard class(es)
ADR 
Class Label 9 Miscellaneous dangerous substances and articles
9
IMDG, IATA 
Class Label 9 Miscellaneous dangerous substances and articles
9
- 14.4 Packing group
ADR, IMDG, IATA **III**
- 14.5 Environmental hazards
 Marine pollutant: Yes (P)
 Symbol (fish and tree)
 Special marking (ADR): Symbol (fish and tree)
 Special marking (IATA): Symbol (fish and tree)
- 14.6 Special precautions for user
 Tunnel restriction code E
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 Not applicable

SECTION 15: REGULATORY INFORMATION

- 14.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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1. Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC with later amendments.
2. Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labeling and packaging of substances and mixtures, and amending and repealing Directive 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with later amendments.
3. European Agreement concerning the international carriage of dangerous goods by road (ADR) (Dz.U.05.178.1481 with later amendments).
4. Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
5. Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.
6. Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC with later amendments.
7. Council Directive 94/55/EC of 21 July 1994 the laws of the Member States relating to road transport of dangerous goods with later amendments.
8. Regulations concerning the international carriage of dangerous goods (RID), issued pursuant to the Convention concerning International Carriage by Rail (COTIF) concluded at Berne on 9 May 1980 (Dz.U.85.34.158 with later amendments).

14.2. Chemical safety assessment

Chemical safety assessment has not been carried out.


SECTION 16: OTHER INFORMATION

This safety data is made in accordance with the principles set out in the REACH Regulation, the available literature described including messages by specially established international organizations and to the best of our knowledge. Analysis of physicochemical properties is regularly carried out on behalf of Polwax S.A. in the laboratory.

STATEMENT

The information provided in this SDS contains the state of our knowledge at the date of issue. We draw attention to downstream users and distributors that we are not responsible for improper use of our product in a manner other than recommended by us.

Precautions regarding health and safety and advice on matters of environmental protection enshrined in the Charter are not necessarily appropriate for all individuals or institutions. Applying the duty to assess

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and use the product specified in a safe manner and in accordance with all applicable laws and regulations. The provisions set out in the Charter in no way relieve the User of the provisions relating to its business.

The above document was developed in Polwax S.A.

**MATERIAL SAFETY DATA SHEETS SHOULD BE IMMEDIATELY TRANSFERRED DOWN
TO SUPPLY CHAIN**