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SECTION 1: Identification of the substance/mixture and introduction of the company

1.1. Product identification:

Trade name

OPTYSIL

1.2. Relevant identified use of the substance or mixture and use discouraged:

Foliar or soil fertilizer in accordance with EC Regulation 2003/2003.
Use not recommended: other than listed above

1.3. Details of the supplier of Material Safety Data Sheet:

Name: INTERMAG Sp. z o.o.
Address: Al. 1000-lecia 15G, 32-300 Olkusz, Poland
Telephone: +48 32 6455900
Fax: +48 32 6427044
E-mail: intermag@intermag.eu
E-mail address of the competent person responsible for MSDS: msds@intermag.pl
1.4. Emergency telephone number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Not classified as hazardous.

2.2. Label elements:

Hazard pictograms:	none
Signal word:	none
Hazard statements:	none
Precautionary statements:	none

2.3. Other hazards:

XIII. The mixture does not meet the criteria for PBT or VPB in accordance with Annex

SECTION 3: Composition / information on ingredients

3.2. Mixture: water solution

The mixture contains no ingredients classified as hazardous substances under existing provisions in concentrations greater than or equal to the corresponding limit values and ingredients that have been assigned occupational exposure limits in the workplace.

If the dangerous ingredients are mentioned, the importance of H Phrases is given in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures:

If health problems or doubts occur, always seek medical advice and show information given in this MSDS.

Inhalation:

Stop working and move to fresh air. In case of loss of consciousness maintain airways patency.

Skin contact:

In case of skin contact take off contaminated clothing. Wash the affected skin with water and soap.

Eye contact:

If the victim wears contact lenses, they should be removed before washing. In case of eye contact, rinse the eyes with plenty of water for at least 15 min, keeping the lids wide open. In case of irritation - seek oculist advice.

Ingestion:

Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed: no data available

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

Decision on suitable treatment should be made by the doctor after assessing the condition of the affected person.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media:

CO₂, foams, water spray and other extinguishing media suitable for materials on fire in the vicinity of the product.

Unsuitable extinguishing media: unknown.

5.2. Special hazards arising from the substance or mixture: Not-flammable under normal condition. Products of decomposition and combustion of mixture may be toxic.

5.3. Information for the fire service:

Use a self-contained breathing apparatus and full protective clothing. Fire residues should be disposed of in accordance to local regulations. Do not allow the contaminated water to be released to underground and surface water.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures:

Inform about the accident; remove from danger zone all persons not involved in the liquidation of accident. Order the evacuation if necessary. Avoid direct and long-term contact with released mixture. Avoid creating and inhaling vapor/mist. In the event of release in a closed space ensure effective ventilation. Use personal protective equipment (respirator with filter type A, protective gloves made of rubber or neoprene, protective goggles or tight-fitting goggles, protective clothing).

6.2. Measures for environmental protection: If possible or safe remove or reduce the leak (seal, close the flow of liquids, place damaged container in an emergency container). Limit the spread of the spill by ramparting area. Prevent the entry of fertiliser into sewage system, groundwater, surface water and soil.

6.3. Methods and materials for containment and cleaning up: In case of a leak of large amount of product – rampart place of fluid accumulation. In case of leak of small amount of product use absorbent material (sand, soil, sawdust, vermiculite), collect spilled fertiliser into tightly closed container and dispose. Flush remains with water. Collect washings and use for fertilizing or for disposal.

6.4. References to other sections:

Personal protective equipment is specified in Section 8. Dispose of in accordance with the recommendations set out in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Do not ingest – if ingested seek medical advice. Avoid contact with skin and eyes. In case of eye contamination – rinse with plenty of

- water and seek medical advice. Use goggles, protective gloves and protective clothing. Observe the rules of hygiene.
- 7.2. Conditions for safe storage, including information about any incompatibilities:
Keep the product in original, tightly closed containers, in a cool, well-ventilated rooms.
- 7.3. The specific end-use:
no data available

SECTION 8: Exposure controls / personal protection

8.1. Control parameters:

employees	
DNEL/DMEL through the skin:	no data available
DNEL/DMEL through inhalation:	no data available
consumers	
DNEL/DMEL through the skin:	no data available
DNEL/DMEL through inhalation:	no data available
DNEL/DMEL ingestion:	no data available
PNEC for freshwater environment:	no data available
PNEC for marine environment:	no data available
PNEC for water environment (temporary release):	no data available
PNEC STP:	no data available
PNEC for sediment environment (freshwater):	no data available
PNEC for sediment environment (seawater):	no data available
PNEC for air:	no data available
PNEC for soil environment:	no data available

Note: When the concentration of the substance is known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in the workplace, exposure time and the activities performed by the employee.

In an emergency, if the concentration of the substance in the workplace is not known, use personal protection measures recommended for the highest protection class.

The employer is obliged to ensure that the used personal protective equipment, clothing and shoes have protective and functional properties and ensure their proper cleaning, maintenance, repair and decontamination.

8.2. Exposure controls:

- 8.2.1. Appropriate technical control measures: general ventilation
- 8.2.2. Personal protection measures such as individual protective equipment:
- 8.2.2.1. Eye or face protection: tight fitting goggles
- 8.2.2.2. Skin protection:
- Protection of hands: protective gloves (breakthrough time \geq 8 hours)
made of nitrile rubber (thickness 0.35 mm) or polyvinyl chloride (thickness 0.5 mm).
- Other:
- 8.2.2.3. Respiratory protection: under normal condition at proper ventilation is not necessary
- 8.2.2.4. Thermal hazards: not required
- 8.2.3. Environmental exposure controls: Prevent entering a large amount of product to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

- Form: liquid, dark brown
- Odor: almost without odor
- Odor threshold: no available data
- pH: 6.0 \pm 0.5 (at 20°C)
- Melting / freezing point: no available data
- Initial boiling point and boiling range: no available data
- Flash point: no available data
- Evaporation rate: no available data
- Flammability (solid, gas): not applicable
- Upper Explosive Limit: no available data
- Lower Explosive Limit: no available data
- Vapor pressure: no available data
- Vapor density: no available data
- Density: 1 200 \pm 50 kg/m³ (at 20°C)
- Solubility in water: total
- Partition coefficient: n-octanol/water: no available data
- Auto-ignition temperature: no available data
- Decomposition temperature: no available data
- Viscosity: no available data
- Explosive properties: the mixture is not explosive
- Oxidizing properties: the mixture is not oxidizing
- 9.2. Other data: none

SECTION 10: Stability and reactivity

- 10.1. Reactivity: may react with hydrofluoric acid and strong alkalis
- 10.2. Chemical stability: stable under normal conditions.
- 10.3. Possibility of hazardous reactions: no available data
- 10.4. Conditions to avoid: no available data
- 10.5. Incompatible materials: hydrofluoric acid and strong alkalis
- 10.6. Hazardous decomposition products: Under normal use conditions no hazardous decomposition products.
Under high temperature decomposes with emission of carbon monoxide/carbon dioxide.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects:
- 11.1.1. Acute toxicity: Based on the available data the classification criteria are not met
- 11.1.2. Corrosive/Irritant to skin: Based on the available data the classification criteria are not met
- 11.1.3. Serious eye damage/Irritant to eyes: Based on the available data the classification criteria are not met
- 11.1.4. Respiratory or skin sensitization: Based on the available data the classification criteria are not met
- 11.1.5. Germ cell mutagenicity: Based on the available data the classification criteria are not met
- 11.1.6. Carcinogenicity: Based on the available data the classification criteria are not met
- 11.1.7. Reproductive toxicity: Based on the available data the classification criteria are not met
- 11.1.8. Specific target organ toxicity (STOT)—single exposure: Based on the available data the classification criteria are not met
- 11.1.9. Specific target organ toxicity (STOT)—repeated exposure: Based on the available data the classification criteria are not met
- 11.1.10. Aspiration hazard: Based on the available data the classification criteria are not met
- 11.1.11. Other information: no available data

SECTION 12: Ecological information

- 12.1. Toxicity: Based on the available data the classification criteria are not met
- 12.2. Persistence and degradability: no available data
- 12.3. Bioaccumulation ability: no available data
- 12.4. Mobility in the soil: no available data
- 12.5. Results of PBT and VPvB assessment: does not meet the criteria of PBT and VPvB
- 12.6. Other adverse effects: Prevent entering a large amount of product to the sewage system, underground and surface water.

SECTION 13: Disposal considerations

- 13.1. Method of disposal: Do not dispose together with municipal solid waste. Prevent the product from being released into sewage system, underground and surface water. Do not dispose in landfill sites. Consider the possibility of utilization. Dispose/ recycle the product and the package according to the local regulations concerning environmental protection. Only completely emptied packages may be recycled. Do not mix with other waste.

SECTION 14: Transport information

- 14.1. UN number: none
- 14.2. UN proper shipping name: not subject to
- 14.3. Transport hazard class(es): not subject to
- 14.4. Packing Group: none
- 14.5. Environmental hazards: does not pose a threat
- 14.6. Special precautions for users: not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not subject to

SECTION 15: Regulatory information

- 15.1. Laws concerning the safety, health and environmental protection specific for the substance or mixture:
- **1272/2008** Regulation of the European Parliament and of the Council (EC) of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
 - **790/2009** Commission Regulation of 10 August 2009 amending, for the purposes to its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures.
 - **2015/830** Commission Regulation of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - **2008/98** Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
 - **94/62** Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste
- 15.2. Chemical safety assessment: not conducted

SECTION 16: Other information

The information in this MSDS relates only to the described product and is based on our current knowledge, experience and may not be comprehensive. The end user is responsible for the use of product according to the valid regulations.

Version 3.0.

Changes: Adjustment of MSDS to the requirements of the Commission Regulation EC 2015/830.

Hints concerning training: Train in accordance with valid regulations: safety and health regulations, fire regulations, regulations of packaging, waste regulations especially taking into account health protection, safety and environmental protection

H-Statements: none

Explanation of acronyms and abbreviations

Met. Corr. – Substance or mixture corrosive to metals

Acute Tox. – Acute toxicity

Skin Corr. – Skin corrosion

Skin Irrit. – Skin irritation

Eye Dam. – Serious eye damage

Eye Irrit. – Serious eye irritation

Resp. Sens. – Respiratory sensitization

Skin Sens. – Skin sensitization

Muta. – Germ cell mutagenicity

Carc. – Carcinogenicity

Repr. – Reproductive toxicity

STOT SE – Specific target organ toxicity – single exposure

STOT RE – Specific target organ toxicity – repeated exposure

Asp. Tox. – Aspiration hazard

Aquatic Acute – Hazardous to the aquatic environment, acute

Aquatic Chronic – Hazardous to the aquatic environment, chronic

Ozone – Hazardous for the ozone layer

Lact. – Reproductive toxicity, additional category, effect or impact on lactation

TLV -TWA -Threshold limit value – Time weighted average

TLV -STEL -Threshold limit value – Short-term exposure limit

TLV -C - Threshold limit value – Ceiling limit

VPvB – very Persistent and very Bioaccumulative

PBT – Persistent Bioaccumulative and Toxic

PNEC – Predicted No Effect Concentration

DN(M)EL – Derived No (Minimal) Effect Level

LD₅₀ – median lethal dose

LC₅₀ – mean lethal concentration

EC₀₁ – concentration showing x % Effect

LOEC – Lowest Observed Effect Concentration

NOEL – No Observed Effect Level

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

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

IMDG – International Maritime Dangerous Goods Code

ICAO/IATA – International Civil Aviation Organization / International Air Transport Association

ADN – International Civil Aviation Organization / International Air Transport Association

UVCB – Substances of Unknown or Variable Composition, Complex reaction products or Biological

Recommended restriction of use: none

Sources used to Material Safety Data Sheet preparation:

website of the European Chemicals Agency (www.echa.eu),
website of the office of Chemical Substances (www.chemikalia.gov.pl)
raw Material Safety Data Sheets