

# MATERIAL SAFETY DATA SHEET

compliant with requirements of the Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning REACH (OJ of the EU L 396), with later amendments

## AGRIDEAL-FENOP 110

Compiled: 25.04.2022

Revised: -

Version: 1.0/HU\_EN

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### Section 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

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#### 1.1. Product identifier

#### **AGRIDEAL-FENOP 110**

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

A plant protection product – herbicide in the form of an emulsion concentrate water. To be used by professional users. Use only in accordance with label-instruction of use.

#### 1.3. Details of the supplier of the Safety Data Sheet

Manufacturer: INNVIGO Sp. z o.o.

address: Al. Jerozolimskie 178, Warsaw, Poland

VAT Reg. No.: PL 557-16-98-060

phone: +48 22 468 26 70

e-mail: [biuro@innvigo.com](mailto:biuro@innvigo.com)

Person responsible for the Safety Data Sheet: [RD@chemirol.com.pl](mailto:RD@chemirol.com.pl)

Distributes:

AgriDeal Kft.

1037 Budapest, Szépvölgyi út 147.

Tel: 06 1 307 4095

[info@agrideal.hu](mailto:info@agrideal.hu)

#### 1.4. Emergency telephone number in Poland

In case of poisoning or suspicion of poisoning, the Health Toxicology Information Service can call the toll - free number 24 hours a day, 06 80 201 199.

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### Section 2. HAZARDS IDENTIFICATION

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The product is classified as dangerous in accordance with applicable regulations.

#### 2.1. Classification of the mixture

According to Directive CLP:

Asp. Tox 1, H304

Skin Irrit. 2, H315

Skin Sens. 1, H317

Eye Irrit. 2, H319

STOT RE. 2, H373 (kidneys)

Aquatic Chronic 2 H411

#### 2.2. Label elements

According to Directive CLP:



Danger

#### **Risk phrases (H-phrases):**

**H304** – May be fatal if swallowed and enters airways.

**H315** – Causes skin irritation.

**H317** – May cause an allergic skin reaction.

**H319** – Causes serious eye irritation.

**H373** – May cause damage to organs (kidneys) through prolonged or repeated exposure

**H411** – Toxic to aquatic life with long lasting effects.

**Safety phrases (P-phrases):**

**P260** – Do not breathe dust/fume/gas/mist/vapours/ spray.

**P280** - Wear protective gloves/protective clothing/eye protection/face protection.

**P302 + P352** – IF ON SKIN: Wash with plenty of water.

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

**P301+P310 +P331** – IF SWALLOWED: Immediately call a POISON CENTER/doctor.

**P333 + P313** – If skin irritation or rash occurs: Get medical advice/attention.

**P337 + P313** – If eye irritation persists: Get medical advice/attention.

**P314** – Get medical advice/attention if you feel unwell.

**P391** – Collect spillage.

**P405** – Store locked up

**P501** – Disposal of contents / container: transport to a hazardous waste landfill.

**EUH 401** – To avoid risks to human health and the environment, comply with the instructions for use.

**EUH 066** – Repeated exposure may cause skin dryness or cracking.

**SP 1** - Do not contaminate water with the plant protection product or its packaging! Do not clean the device or its parts near surface water! Avoid contamination on the farm or through water mains on the roads.

**SPo 2** - All protective clothing must be washed after use!

**SPe 3** - To protect aquatic organisms, keep an untreated, vegetated (preferably closed lawn) safety zone 5 m away from surface waters.

To protect non-target plants, keep an untreated safety zone 15 m away from non-agricultural land.

When using a 50% drift reduction nozzle 10 m, 75% drift reduction nozzle

If used, a 5 m untreated safety zone must be maintained!

**Other hazards**

Other hazards are not identified.

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**Section 3. COMPOSITION / INFORMATION ON INGREDIENTS**


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**3.2. Mixture**

Ingredients hazardous to human health or the environment:

Chemical name	Index No.	CAS No.	EC No.	Content [% w/w]	CLP Classification
Fenoksaprop-P-ethyl	-	71283-80-2	-	10-11	Aquatic Chronic 1 H410 M(Chronic) = 1 Aquatic Acute 1, H400 M = 1 STOT RE 2, H373 (kidneys) Skin Sens. 1, H317
Mefenpyr-diethyl	-	135590-91-9	-	10-12	Aquatic Chronic 2 H411
Oktanamid, N, N-dimetil	-	1118-92-9	-	10-18.9	Skin Irrit. 2 H315 Eye Dam. 1 H318
Decanamid, N,N-dimethyl	-	14433-76-2	-	8.1 – 16.2	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 Aquatic Chronic 3 H412
Solvent naphtha	649-424-00-3	64742-94-5	265-198-5	30 - 37	Asp. Tox. 1 H304
Calcium dodecylbenzenesulfonate	-	26264-06-2	247-557-8	3-4	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318

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**Section 3. COMPOSITION / INFORMATION ON INGREDIENTS**


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Three-siloksan modified polyether	-	134180-76-0	-	3-4	Acute Tox., 4, H312 Acute Tox., 4, H332 Aquatic Chronic, 2, H411 Eye Irrit., 2, H319
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Symbol explanation and full phrasing of H-phrases is included in Section 16.

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**Section 4. FIRST AID MEASURES**


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**4.1. Description of first aid measures**General recommendations:

Avoid contamination of skin, eyes and clothing. In case of exposure immediately remove all contaminated clothing. Take off contaminated clothing and wash before reuse. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

Procedure in case of:

- inhalation: move the victim to fresh air. If necessary administer oxygen or apply artificial respiration. In the case of a stronger poisoning seek medical advice.
- skin contact: If skin irritation occurs: Get medical advice/attention.
- eye contact: wash immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
- ingestion: do not induce vomiting unless specifically advised by a doctor. Wash mouth with water. Do not administer anything orally if the victim is unconscious.

In the case of getting into the mouth or swallowed the following measures should be considered: Gastric lavage with charcoal, if necessary - further treatment.

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

No data

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

The decision on how to proceed made by a doctor after examination of the injured.

Antidote: none.

Treat symptomatically.

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**Section 5. FIREFIGHTING MEASURES**


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General recommendations:

Remove from the area all unauthorized personnel and persons not participating in elimination of the fire. Eliminate sources of ignition, do not smoke. If necessary call the Fire Service.

**5.1. Extinguishing media**Appropriate media:

Foam, dry chemicals, carbon dioxide, sand or earth,; if necessary use water spray. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable media:

High-volume water jet.

**5.2. Special hazards arising from the mixture**

During fire dangerous gases may be evolved: carbon oxides (CO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), hydrogen chloride gas. Exposure to products of combustion may be a health hazard. Do not breathe fumes, gases or vapor.

**5.3. Advice for firefighters**

Use full protective clothing and a self-contained breathing apparatus. Isolate the exposed area. Isolate the water used for elimination of fire, do not allow it to enter sewers. Containers exposed to fire with water spray.

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**Section 6. ACCIDENTAL RELEASE MEASURES**


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

Use personal protective measures – protective clothing, protective gloves, face shield. Avoid contact with skin, eyes and clothing. Avoid contact with spilled or released material. Restrict access to the area of bystanders failure until completion of the appropriate cleaners.

**6.2. Environmental precautions**

Do not empty into drains. Do not allow the product to enter sewers, ditches or waterways. Use appropriate containment to

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## Section 6. ACCIDENTAL RELEASE MEASURES

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avoid environmental contamination. In the case of environmental contamination notify the relevant services.

### 6.3. Methods and material for containment and cleaning up

#### Small spillage:

Collect immediately by vacuum and place in appropriate waste container.

#### Large spillage:

Avoid formation of dust. Isolate the spillage area. Collect with an electrically secured vacuum or wet sweep and place in appropriate waste container. For proper cleanup wash the spillage area with plenty of water.

### 6.4. Reference to other sections

Dispose of in accordance with recommendations listed in Section 13 of the Safety Data Sheet.  
During cleanup use personal protective measures as indicated in Section 8.

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## Section 7. HANDLING AND STORAGE

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### 7.1. Precautions for safe handling

Follow the Occupational Safety and Health rules and regulations on handling chemicals. Use personal protective measures listed in Section 8. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in original containers, tightly closed in a dry, well-ventilated place at temperature not lower than 0 °C and not exceeding 30 °C. Store in a place inaccessible to unauthorized personnel. Keep away from children and animals. Do not store with food, drink or animal foodstuffs. Store away from heat and hot surfaces.

### 7.3. Specific end use(s)

Strictly follow the label-instruction of use of the plant protection product.

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## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 8.1. Control parameters

#### Occupational Exposure Limits of mixture ingredients:

[Regulation of the Minister of Labor and Social Policy of 29 November 2002 concerning highest allowable concentrations and intensities of harmful agents in the work environment (J. of L. 2002 No. 217, item 1833) with later changes]

no recommendations

#### Occupational Exposure Limits of mixture ingredients recommended by the manufacturer:

no recommendations

### 8.2. Exposure controls

#### Personal protective measures

The need for and selection of appropriate security measures should take into account the type of threat posed by the product, workplace conditions and the treatment of the product. Wear protective reputable manufacturers.

- Eye / face protection: Tight-fitting goggles and face shield (type goggles, e.g. EN 166)
- Skin protection: protective gloves recommended for handling chemicals (EN 374 e.g. nitrile rubber (0.4 mm), chloroprene rubber (0,5 mm), butyl rubber (0.7 mm). Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, gas-tight and resistant to chemical-protection suit (according to EN 14605)
- Respiratory protection: avoid breathing vapor of the product or the prepared spray mixture; in case of insufficient ventilation wear breathing masks with appropriate filters or a self-contained breathing apparatus ((filter with medium efficiency for solid and liquid particles e.g. EN 143 or 149, Type P2 I FFP2).
- Thermal hazards: not present

Wash hands before every break and after work.

Work only in well-ventilated rooms.

Avoid contact with skin and eyes.

#### Environmental exposure controls

Do not empty into drains. Use containers to prevent the uncontrolled release into the environment of concentrate.

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## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

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

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**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**


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Appearance:	clear, homogeneous and light straw liquid
Odor:	characteristic
Odor threshold:	not determined
pH of 1% aqueous solution:	5.57-6.07
Melting/Freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	73.5 °C
Evaporation rate:	not determined
Flammability:	not applicable
Upper/lower flammability or explosive limits:	not applicable
Vapor pressure:	not determined
Vapor density:	not determined
Relative density:	1.018
Solubility:	create a suspension
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	470 °C
Decomposition temperature:	not determined
Viscosity:	at 20°C kinematic 13 mm <sup>2</sup> /s, dynamic 13.2 mPa·s at 40°C 6.88 mm <sup>2</sup> /s - kinematic viscosity
Explosive properties:	non-explosive
Oxidizing properties:	non-oxidizing
Particle characteristic	no data available

**9.2. Other information**

surface tension 25.1 mN/m

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**Section 10. STABILITY AND REACTIVITY**


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**10.1. Reactivity**

No reactivity under normal handling and storage conditions.

**10.2. Chemical stability**

Stable under normal handling and storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions, including hazardous polymerization, do not take place.

**10.4. Conditions to avoid**

Avoid temperatures beyond the recommended storage range. Protect from direct sunlight.

**10.5. Incompatible materials**

To be used only in accordance with the label-instruction of use. Use in mixtures with products other than recommended is prohibited.

**10.6. Hazardous decomposition products**

Not determined. Hazardous products of thermal decomposition are described in Section 5.

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**Section 11. TOXICOLOGICAL INFORMATION**


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**11.1. Information on toxicological effects**Data concerning the mixture:

## Acute toxicity:

- oral (rat): LD<sub>50</sub> > 2000 mg/kg b.w.
- dermal (rat): LD<sub>50</sub> > 2000 mg/kg b.w.

## Irritation:

- eyes (rabbit): causes eye irritation.(according to Directive 1272/2008/WE)
- skin (rabbit): causes skin irritation (according to Directive 1272/2008/WE)

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## Section 11. TOXICOLOGICAL INFORMATION

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Sensitization:  
 - skin (guinea pig): skin sensitizer (in Magnusson & Kligman scale - no classification)

May be fatal if swallowed and enters airways. (Asp. Tox. 1, H304)

**Caustic effect:** The product contains ingredients with caustic.

**Sensitization:** The product contains an identified sensitizer (fenoxaprop-P-ethyl).

**Carcinogenicity:** The product does not contain ingredients identified carcinogenic.

**Mutagenicity:** The product does not contain ingredients identified mutagenic.

**Reproductive toxicity:** The product contains ingredients identified harmful effect on reproduction. (<10%)

**Operation target organ toxicity - single exposure:**

It is unlikely that the product under normal conditions of use and handling of him, causing harmful effects.

**Operation target organ toxicity - repeated exposure:**

It is unlikely that the product under normal conditions of use and handling of him, causing harmful effects.

May cause damage to organs (kidneys) through prolonged or repeated exposure (STOT RE 2, H373).

**Information on likely routes of exposure - WARNING! The product is not fully explored!**

**Skin contact :** may cause irritation, skin sensitization .

**Skin absorption:** may be harmful if absorbed through the skin.

**Eye contact:** may cause irritation of the eyes.

**Inhalation:** may be irritating to mucous membranes and upper respiratory tract.

**Ingestion:** may be harmful if.

### 11.2. Information about other hazards

#### 11.2.1. Endocrine disrupting properties

None of the substances in the mixture are on the ECHA Candidate List due to endocrine disrupting properties.

#### 11.2.2. Other informations

No additional information available.

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## Section 12. ECOLOGICAL INFORMATION

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### 12.1. Toxicity

Data concerning the mixture:

Toxicity for water organisms:

- fish ( <i>Rainbow trout</i> ) :	LC <sub>50</sub> /96 h = 5.35 mg/L
- daphnia ( <i>Daphnia magna</i> ):	EC <sub>50</sub> /48 h = 4.03 mg/L
- aquatic plant ( <i>Lemna gibba</i> ):	ErC <sub>50</sub> /7d > 10 mg/L
- algae ( <i>Pseudokirchneriella sub.</i> ):	EyC <sub>50</sub> /72h = 1.12 mg/L
	ErC <sub>50</sub> /72h = 1.64 mg/L

Toxicity for honeybees (*Apis mellifera* L.):

- oral:	LD <sub>50</sub> /24-72h > 200 µg/bee
- contact:	LD <sub>50</sub> /24-72h > 200 µg/bee

### 12.2. Persistence and degradability

Fenoxaprop: DT<sub>50</sub> 0.02-0.8 days (20°C)

### 12.3. Bioaccumulative potential

Fenoxaprop: BCF = 338  
logPow = 4.58

### 12.4. Mobility in soil

Fenoxaprop: K<sub>oc</sub> = 5419-26207 ml/g

### 12.5. Results of PBT and vPvB assessment

None of the mixture ingredients is included in the ECHA candidate list of PBT or vPvB substances.

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## Section 12. ECOLOGICAL INFORMATION

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### 12.6. Endocrine disrupting properties

None of the substances in the mixture are on the ECHA candidate list due to endocrine disrupting properties.

### 12.7. Other adverse effects

Information pointing to other adverse effects of use of the mixture is not available.

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## Section 13. DISPOSAL CONSIDERATIONS

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### 13.1. Waste treatment methods

#### Disposal of product waste:

Do not empty into drains. Do not contaminate surface waters (ponds, water ways, ditches). Dispose of as hazardous material.

European Waste Code: 02 01 08 Agrochemical waste containing dangerous substances, including plant protection products of I and II toxicity class (very toxic and toxic).

#### Disposal of containers:

Triple rinse empty product containers and place the rinsate in the spray tank. Do not re-use empty containers for any purpose, including recycling. Return empty product containers to the product supplier. Dispose of as hazardous material.

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## Section 14. TRANSPORT INFORMATION

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#### Land transport ADR/RID:

### 14.1. UN number: 3082

According to special provision 375 of Chapter 3.3.1 of the ADR, the carriage of goods in unit packages containing no more than 5 liters of material, delivered individually or in packagings of combined packaging, is not subject to any other ADR regulation provided that the packaging complies with the requirements of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR.

### 14.2. UN proper shipping name:

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, I.N.O (Fenoksaprop-P-ethyl)

RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, I.N.O (Fenoksaprop-P-ethyl)

### 14.3. Transport hazard class(es): 9/M6

### 14.4. Packaging group: III

### 14.5. Environmental hazards: no data

### 14.6. Special precautions for user: special provisions apply. 5.2.1.8.; rules specials: 274, 335, 375, 601.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

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## Section 15. REGULATORY INFORMATION

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### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

#### Legislation:

- REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorization 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 well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (OJ of the EU L 396), with later changes
- 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ of the EU L 353), with later changes
- DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations (OJ of the EU L 200), with later changes
- BILL on chemical substances and mixtures (J. of L. 2011 No. 63, item 322), with later changes
- The European AGREEMENT concerning the International Carriage of Dangerous Goods by Road (ADR), version in force since 01.01.2011
- ORDINANCE of the Minister of Economy, Labor and Social Policy No. 1 of 12.02.2003 regarding ADR; ORDINANCE of the Minister of Economy and Labor No. 8 of 21.07.2004 regarding RID
- REGULATION of the Minister of Labor and Social Policy of 29 November 2002 concerning highest allowable concentrations and intensities of harmful agents in the work environment (J. of L. 2002 No. 217, item 1833) with later changes
- BILL of 11 May 2001 on packaging and packaging waste (J. of L. 2001 No. 63, item 638), with later changes

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## Section 15. REGULATORY INFORMATION

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- REGULATION of the Minister of Environment of 27 September 2001 concerning waste catalogue (J. of L. 2001 No. 112, item 1206), with later changes
- REGULATION of the Minister of Labor and Social Policy of 31 May 2003 concerning basic requirements for personal protective equipment (J. of L. 2003 No. 80, item 725), with later changes
- REGULATION of the Minister of Labor and Social Policy of 26 September 1997 concerning general regulations on occupational safety and health (J. of L. 1997 No. 129, item 844), with later changes
- REGULATION (EC) No 1107/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

### 15.2. Chemical safety assessment

It is not required.

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## Section 16. OTHER INFORMATION

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### Changes introduced at revision of the Safety Data Sheet:

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### Sources of data for preparation of the Safety Data Sheet:

This document is prepared according to results of manufacturer's own studies, as well as based on information supplied by manufacturers of ingredients of the formulation and data on ingredients of the formulation available at EU level.

### Symbols and H-phrases used in Section 3 and not included in Section 2:

H302 – Harmful if swallowed.  
H312 – Harmful in contact with skin.  
H318 – Causes serious eye damage.  
H332 – Harmful if inhaled.  
H335 – May cause respiratory irritation.  
H400 – Very toxic to aquatic life.  
H410 – Very toxic to aquatic life with long lasting effects.  
H412 – Harmful to aquatic life with long lasting effects.

### Other abbreviations and acronyms:

Aquatic Chronic – chronic risk to aquatic environment  
Acute Tox. – acute toxicity  
Aquatic Acute – acute risk to aquatic environment  
Eye Irrit. – irritating effect to eyes  
Skin Irrit. – irritating to skin  
Eye dam. – causes serious eye damage  
Asp.Tox. – Aspiration toxicity  
Skin Sens. – Skin sensitisation  
STOT SE. – specific target organ toxicity – single exposure

DT50 - period required for 50 percent disappearance (define method of estimation)  
ER50 - emergence rate/effective rate, median  
ErC50 - effective concentration (growth rate)  
EC50 - effective concentration  
CAS - Chemical Abstract Service  
BCF - bioconcentration factor  
AOEL - acceptable operator exposure level  
a.s. - active substance  
bw - body weight  
LC50 - lethal concentration, median

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Data included in this Safety Data Sheet is based on current knowledge and applies to the product in its formulation of use. This information is intended exclusively as guidance on safe handling, transport, use, storage and waste disposal and is not to be identified with a warranty or a quality certificate. The user is responsible for consequences resulting from inadequate use of information presented in this Safety Data Sheet or from inappropriate use of this product.