

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-KLOPIRA 300

Compiled: 26.04.2022

Revised: -

Version: 1.0/HU_EN

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

1.1. Product identifier

AGRIDEAL-KLOPIRA 300

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

A plant protection product – herbicide in the form of water soluble concentrate. 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

Person responsible for the Safety Data Sheet: RD@chemirol.com.pl

Distributes:

AgriDeal Kft.

1037 Budapest, Szépvölgyi út 147.

Tel: 06 1 307 4095

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.

Section 2. HAZARDS IDENTIFICATION

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

2.1. Classification of the mixture

According to Directive 1272/2008/WE (CLP)

Aquatic Chronic 3, H412

Eye Irrit. 2, H319

2.2. Label elements

According to Directive 1272/2008/WE (CLP)



Warning

Risk phrases (H-phrases):

H319 – Causes serious eye irritation.

H412 – Harmful to aquatic life with long lasting effects.

Safety phrases (P-phrases):

P102 – Keep out of reach of children.

P270 – Do not eat, drink or smoke when using this product.

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.

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

P391 – Collect spillage.

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.

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.

SPe 1 - To protect groundwater, do not use this or any other product containing clopyralid in the same area more than once!

SPe 2 - Do not use on drained soils, sandy soils (Golden Bound, KA <30) and highly sensitive groundwater protection areas!

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

2.3. Other hazards

Other hazards are not identified.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixture

Ingredients hazardous to human health or the environment:

Chemical name	Index No.	CAS No.	EC No.	Content [% w/w]	CLP Classification
Chlopyralid [3,6-dichloropyridine-2-carboxylic acid, compound with 2-aminoethanol]	607-231-00-1	1702-17-6	216-935-4	30	Eye Dam. 1 H318
2-aminoethanol	603-030-00-8	141-43-5	205-483-3	9 - 10	Acute Tox. 4 H332 Acute Tox. 4 H312 Acute Tox. 4 H302 Skin Corr. 1B H314 STOT SE 3 H335
2-propylheptanol, ethoxylated, propoxylated, polymer	-	160875-66-1	-	8 -9	Eye Dam. 1 H318 Acute Tox. 4 H302

Symbol explanation and full phrasing of H-phrases is included in Section 16.

Section 4. FIRST AID MEASURES

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. If danger of loss of consciousness, place and transport in stable lateral position. 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.
- skin contact: wash immediately with plenty of water and soap. If irritation develops and persists contact a physician.
- eye contact: wash immediately with plenty of water, also under the eyelids, for at least 15 minutes. Contact a specialist.
- 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.

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

Antidote: none.

Treat symptomatically.

Section 5. FIREFIGHTING MEASURES

General recommendations:

Remove from the area all unauthorized personnel and persons not participating in elimination of the fire. Eliminate sources of

Section 5. FIREFIGHTING MEASURES

ignition, do not smoke. If necessary call the Fire Service.

5.1. Extinguishing media

Appropriate media:

Foam, dry chemicals, carbon dioxide; if necessary use water spray.

Unsuitable media:

High-volume water jet.

5.2. Special hazards arising from the mixture

During fire dangerous gases may be evolved: hydrogen chloride, carbon oxides (CO_x). 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. Keep containers cool water. Isolate the water used for elimination of fire, do not allow it to enter sewers.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Do not empty into drains. Do not allow the product to enter sewers, ditches or waterways. Use appropriate containment to avoid environmental contamination. In the case of contamination of rivers or lakes notify the appropriate emergency 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 recommendation listed in Section 13 of the Safety Data Sheet. During cleanup use personal protective measures as indicated in Section 8.

Section 7. HANDLING AND STORAGE

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. Avoid contact with skin and eyes. Do not breathe vapor or mist. Use with adequate ventilation. At work do not eat, drink or smoke. Before eating, drinking or smoking wash hands and face. Remove contaminated clothing and protective equipment before entering eating areas. Wash contaminated clothing before reuse.

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.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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:

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Clopyralid: NDS, NDSCh: not determined

8.2. Exposure controls

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

Environmental exposure controls.

Use containers to prevent the uncontrolled release into the environment of concentrate.

Wash hands before every break and after work.

Work only in well-ventilated rooms.

Avoid contact with skin and eyes.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	straw-colored liquid
Odor:	characteristic
Odor threshold:	not determined
pH of 1% aqueous solution:	6.45 – 7.30
Melting/Freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	does not have a flashpoint
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:	1,148
Solubility:	soluble in water
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	460 °C
Decomposition temperature:	not determined
Viscosity:	Kinematic – 9,05 mm ² /s and dynamic 10,4 mPa•s
Explosive properties:	non-explosive
Oxidizing properties:	non-oxidizing
Particle characteristic	no data available

9.2. Other information

Surface tension: 23,3 mN/m

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity

No reactivity under normal handling and storage conditions.

10.2. Chemical stability

Stable under normal handling and storage conditions.

Section 10. STABILITY AND REACTIVITY

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.

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Data concerning the mixture:

Acute toxicity:

- oral (rat): LD₅₀ > 2000 mg/kg b.w.
- dermal (rat): LD₅₀ > 2000 mg/kg b.w.
- inhalation: LD₅₀ > 20 mg/L

Irritation:

- eyes (rabbit): irritant to eye (according to directive EC/1272/2008 – Eye Irrit. 2, H319)
- skin (rabbit): not irritant to skin (according to directive EC/1272/2008)

Sensitization:

- skin: weak skin sensitizer (in Magnusson & Kligman scale - no classification)

Inhalation toxicity (clopyralid): LC₅₀ > 1 mg/L

Caustic effect: The product contains substance acting corrosive to the eye (30%) and corrosive to the skin (<10%).

Sensitization: The product does not contain any ingredients identified as sensitizing.

Carcinogenicity: The product does not contain ingredients identified carcinogenic.

Mutagenicity: The product does not contain ingredients identified mutagenic.

Reproductive toxicity: The product does not contain ingredients identified harmful effect on reproduction.

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.

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 swallowed

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.

Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Data concerning the mixture:

Toxicity to water organisms:

- fish (*Rainbow trout*): LC₅₀/96 h = 55.1 mg/L

Section 12. ECOLOGICAL INFORMATION

- aquatic invertebrates (<i>Daphnia magna</i>):	EC ₅₀ /48 h = 104,5 mg/L
- algae (<i>Lemna gibba</i>):	ErC ₅₀ /7d >100 mg/L
- aquatic plant: (<i>Anabaena flos-aquae</i>):	EyC ₅₀ /72h >100 mg/L
	ErC ₅₀ /72h >100 mg/L
(<i>Pseudokirchneriella sub.</i>):	EyC ₅₀ /72h = 29.5 mg/L

Toxicity for honeybees (<i>Apis mellifera</i> L.):	
- oral:	LD ₅₀ > 100 µg/bee
- contact:	LD ₅₀ > 100 µg/bee

12.2. Persistence and degradability

Clopyralid: it is expected that the material will undergo very slow degradation (in the environment).

12.3. Bioaccumulative potential

Clopyralid: BCF < 100 or log Pow < 3 (the possibility for bioconcentration is low)

12.4. Mobility in soil

Clopyralid: Potential for mobility in soil is very high (Koc between 0 and 50).

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.

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.

Section 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methodsDisposal 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.

Section 14. TRANSPORT INFORMATION

Land transport ADR/RID:

14.1. UN number: Not subject to ADR/RID regulations.

14.2. UN proper shipping name: Not subject to ADR/RID regulations.

14.3. Transport hazard class(es): Not subject to ADR/RID regulations.

14.4. Packaging group: Not subject to ADR/RID regulations.

14.5. Environmental hazards: Not subject to ADR/RID regulations.

14.6. Special precautions for user: Not subject to ADR/RID regulations.

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

Section 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixtureLegislation:

- 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

Section 15. REGULATORY INFORMATION

- 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
 - REGULATION OF THE MINISTER OF HEALTH of 4 September 2007 amending the regulation concerning criteria and methods of classification of chemical substances and preparations (J. of L. 2007 No. 172, item 1222), with later changes
 - REGULATION of the Minister of Health of 2 March 2009 concerning labeling of dangerous substances and preparations and certain chemical preparations (J of L. 2009 No. 53, item 439), with later changes
 - The European AGREEMENT concerning the International Carriage of Dangerous Goods by Road (ADR), version in force since 01.01.2007
 - 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
 - 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
 - Act of 18 December 2003 r. on the plant protection (J. of L. 2004 No. 11, item. 94 with later changes)

15.2. Chemical safety assessment

It is not required.

Section 16. OTHER INFORMATION

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 delivered 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:

H318 Causes serious eye damage.
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Other abbreviations and acronyms:

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

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.