

**SAFETY DATA SHEET** in accordance with Regulation (EC) No 1907/2006**ROUNDUP® DYNAMIC**Version 2.0 / PL  
102000039960

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Update date: 09/02/2024  
Printed on: 09/02/2024**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE ENTERPRISES****1.1 Product ID**

Trade name ROUNDUP® DYNAMIC

UFI AK82-704C-D00T-KH2E

Product Code (UVP) 62289668

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

Application Herbicide

**Restrictions on use** Restrictions are stated on the label of this product.**1.3 Details of the supplier of the safety data sheet**Supplier Bayer Sp. zoo  
Jerozolimskie Avenue 158  
02-326 Warsaw  
Poland

Phone number +48(0)22/572 35 00

Fax +48(0)22/572 36 03

Responsible Department E-mail: kontakt@bayercropscience.com

**1.4 Emergency telephone number**

Emergency telephone number +48(0)22/823 85 46 (24/7)

**SECTION 2: HAZARD IDENTIFICATION****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging, as amended.**Long-term (chronic) hazard to the aquatic environment: Category 2  
H411 Toxic to aquatic life with long lasting effects.**2.2 Signage elements****Marking in accordance with the permit issued by the Ministry of Agriculture and Rural Development.**

Labeling for delivery and use is required.

**Hazardous ingredients must be listed on the label:**

- Glyphosate potassium salt



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**Hazard statements**

H411 Toxic to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, follow the instructions for use.

**Precautionary statements**

P391 Collect spill.

**2.3 Other threats**

There are no known threats other than those mentioned.

Glyphosate potassium salt: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Ecological information: This substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57(f) of REACH Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100 at levels of 0.1% or higher.

Toxicological information: This substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57(f) of REACH Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100 at levels of 0.1% or higher.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Chemical characterization**

Soluble concentrate (SL)

Glyphosate potassium salt 613 g/l

**Hazardous ingredients**

Hazard statements according to Regulation (EC) No 1272/2008

Name	CAS No. / EC No. / REACH registration number	Classification	Concentration [%]
		REGULATION (EC) No 1272/2008	
Glyphosate potassium salt	70901-12-1	Aquatic Chronic 2, H411 46	
Amides, C6-9, N-[3(dimethylamino)propyl]	1044764-00-2	Eye Dam. 1, H318 > 1.0 and < 5.0	
Cocoamine, Ethoxylate, Propoxylate, N-oxide	1416792-82-9	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	> 1.0 and < 5.0

**Further information**

For the full text of the H-statements mentioned in this Section, see Section 16.

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This substance/mixture does not contain nanoforms.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General recommendations**

Remove from the danger zone. Place and transport the injured person in a stable (lateral) position. Immediately remove all contaminated clothing and dispose of it safely.

In case of accident or unwellness, seek medical advice immediately (show the label where possible).

**Inhalation**

Move to fresh air. Keep the victim warm and at rest. Contact a poison control center or doctor immediately.

**Skin contact**

Rinse immediately with plenty of water, for at least 15 minutes. Remove all contaminated clothing and shoes immediately. Get medical attention if irritation develops and persists.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Get medical attention if irritation occurs and persists.

**Swallowing**

Do NOT induce vomiting. Rinse mouth. Call a poison control center or doctor immediately.

**4.2 Most important acute and delayed symptoms and effects of exposure**

To date, no symptoms are known.

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

The product is not a cholinesterase inhibitor.

**Procedure**

Treatment with atropine and oximes is not indicated. Supportive and symptomatic therapy appropriate to the patient's condition is recommended. There is no specific antidote.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media****Appropriate**

Use water spray, alcohol-resistant foam, extinguishing powder or carbon dioxide.

**Inappropriate**

Strong stream of water

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<b>5.2 Special hazards arising from the substance or mixture</b>	In the event of fire, the following may be released: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), phosphorus oxides
<b>5.3 Information for the fire brigade</b>	
<b>Special protective equipment for firefighters</b>	In the event of fire and/or explosion, do not breathe smoke. In the event of fire, wear self-contained breathing apparatus.
<b>Additional information</b>	Contain the spread of extinguishing media. Avoid direct contact of water with the product.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

**6.2 Environmental precautions** Do not allow to enter sewers, surface waters, or groundwater. Avoid release into the environment contrary to identified uses.

**6.3 Methods and materials for containment and removal of contamination**

**Purification methods** Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust). Collect and place the product in a properly labeled and tightly closed container. Thoroughly clean contaminated floors and objects in accordance with environmental regulations.

**6.4 References to other sections** Information on safe handling is provided in section 7.  
For information on personal protective equipment, see section 8.

For information on waste disposal, see section 13.

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**SECTION 7: HANDLING AND REMEDIES  
STORAGE****7.1 Precautions for safe handling**

**Ways to proceed safely** Avoid contact with skin, eyes, and clothing. Use only in areas with adequate exhaust ventilation.

**Hygiene products** Wash your hands thoroughly with soap and water after handling the product and before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics.  
Remove personal protective equipment immediately after handling this product. Immediately remove all contaminated clothing and clean thoroughly before reuse. Wash thoroughly and wear clean clothing. Store work clothes separately.

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Clothing that cannot be cleaned must be destroyed (burned).  
Do not eat, drink or smoke while working.

**7.2 Conditions for safe storage, including information on any incompatibilities****Requirements for storage rooms and containers**

Store in the original packaging. Keep containers tightly closed in a dry, well-ventilated place, at a temperature between 0°C and 30°C, also for quality reasons. Avoid cross-contamination with other plant protection products, fertilizers, food, and feed. Store in a place accessible only to authorized personnel. Reacts with galvanized steel or mild steel, releasing hydrogen, a highly flammable gas that can explode. Protect from freezing. Prolonged storage at temperatures below the minimum temperature may result in partial crystallization of the product. Freezing will affect the physical state but will not destroy the material's structure. Melt and mix before use.

Keep out of reach of children.

**Storage guidelines**

Do not store together with food, drinks and animal feed.

**Suitable materials**

Packaging capacities: 500 ml, 1 l, 2 l, 5 l, 10 l, 15 l, 20 l, 220 l made of HDPE. Packaging capacities: 640 l, 1000 l made of HDPE on a metal pallet.

**7.3 Specific end use(s)**

Please read the label and/or leaflet.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

There are no known permissible limits.

**8.2 Exposure Controls****Personal protective equipment**

Under recommended conditions of use and handling, please follow the instructions on the label. Otherwise, follow the instructions provided.

**Respiratory protection** Not required under anticipated exposure conditions.

respiratory protective equipment.

Respiratory protective equipment should only be used to control residual risks, during short-term activities, when all reasonably practicable measures have been taken to reduce exposure at source, e.g., containment and/or local exhaust ventilation. Always follow the manufacturer's instructions for wearing and maintaining respiratory protective equipment.

**Hand protection**

Please follow the instructions regarding permeability and breakthrough time provided by the glove supplier. Also take into account the specific local conditions of use, such as the risk of cuts, abrasion, and contact time.

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Wash gloves if contaminated. Discard if internally contaminated, punctured, or if external contamination cannot be removed.

Material Nitrile rubber  
 Permeation rate > 480 min  
 Glove thickness > 0.4 mm  
 Standard Protective gloves complying with EN 374.

**Eye protection**

Wear glasses (EN166 compliant, field of view = 5 or equivalent).

**Skin and body protection**

Wear standard protective coveralls and Category 3 Type 6 protective clothing.  
 If there is a risk of significant exposure, protective clothing with a higher level of protection should be considered.  
 Whenever possible, wear two layers of clothing. Polyester/cotton or cotton protective clothing should be worn under chemical-resistant coveralls and should be professionally cleaned frequently.  
 If the chemical protective suit is splashed, sprayed or significantly soiled, it should be cleaned immediately and then carefully removed and disposed of according to the manufacturer's recommendations.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>State of matter</b>	Liquid
<b>Color</b>	Brown
<b>Smell</b>	Chemical
<b>Odor threshold</b>	No data available
<b>Melting point/ melting range</b>	No data available
<b>Boiling point</b>	No data available
<b>Combustibility</b>	No data available
<b>Upper explosive limit</b>	No data available
<b>Lower explosive limit</b>	No data available
<b>Flash-point (Flash point)</b>	Does not ignite
<b>Autoignition temperature</b>	No data available
<b>Self-accelerating decomposition temperature (SADT)</b>	No data available

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<b>pH</b>	4.4 - 5.2 (10 g/l) (23 °C) (deionized water)
<b>Dynamic viscosity</b>	No data available
<b>Kinematic viscosity</b>	No data available
<b>Water solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	Glyphosate potassium salt: log Pow: < -3.2 (25 °C)
<b>Vapor pressure</b>	Low volatility, aqueous solution
<b>Density</b>	1.34 g/cm <sup>3</sup> (20 °C)
<b>Relative density</b>	1,335
<b>Relative vapor density</b>	No data available
<b>Nanoparticle evaluation</b>	This substance/mixture does not contain nanoforms
<b>Particle size</b>	No data available

**9.2 Other information****Explosive properties** Not explosive**Oxidizing properties** No data available**Evaporation rate** No data available**Other physicochemical properties** Other physicochemical data related to safety are not known.

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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity** Durable under normal conditions.**10.2 Chemical stability** Stable when stored under recommended conditions.**10.3 Possibility of hazardous reactions** Reacts with galvanized steel or mild steel to release hydrogen, a highly flammable gas that can explode.**10.4 Conditions to avoid** Frost, temperatures > 30 °C and direct sunlight.**10.5 Incompatible Materials** Galvanized Steel, Carbon Steel, Uncoated Mild Steel  
Store only in original container.**10.6 Hazardous decomposition products** No decomposition products are expected under recommended conditions of use.

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<b>Acute toxicity - oral route</b>	LD50 (Rat) > 5,000 mg/kg
<b>Acute toxicity - inhalation</b>	LC50 (Rat) > 5.07 mg/l Exposure time: 4 h
<b>Acute toxicity - after application to the skin</b>	LD50 (Rat) > 5,000 mg/kg
<b>Skin corrosion/irritation</b>	Mild irritant effect - no labeling required. (Rabbit)
<b>Serious eye damage/eye irritation</b>	Mild irritant effect - no labeling required. (Rabbit)
<b>Respiratory or skin sensitization</b>	Skin: Not sensitizing. (Guinea pig) OECD 406, Buehler test

**STOT Assessment Specific Target Organ Toxicity – Single Exposure**

Glyphosate potassium salt: Based on available data, the classification criteria are not met.

**STOT Assessment Specific Target Organ Toxicity – Repeated Exposure**

Glyphosate potassium salt did not cause specific target organ toxicity in experimental animal studies.

**Mutagenicity assessment**

Glyphosate potassium salt is not considered to be mutagenic.

**Carcinogenicity assessment**

Glyphosate potassium salt: Based on available data, the classification criteria are not met.

**Reproductive toxicity assessment**

Glyphosate potassium salt: Based on available data, the classification criteria are not met.

**Developmental toxicity assessment**

Glyphosate potassium salt: Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information about other threats****Endocrine disrupting properties****Rate**

This substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57(f) of REACH Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100 at levels of 0.1% or higher.

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<b>Fish toxicity</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 459 mg/l static test; Exposure time: 96 h
<b>Chronic toxicity to fish</b>	Brachydanio rerio (zebrafish) NOEC: 1.0 mg/l Exposure time: 7 d The value refers to the active substance: glyphosate.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (water flea)) 675 mg/l Exposure time: 48 h
<b>Toxicity to aquatic plants</b>	EC50 (Raphidocelis subcapitata (green algae)) 53 mg/l Exposure time: 72 h NOEC (Raphidocelis subcapitata (green algae)) 2.6 mg/l Exposure time: 72 h

**12.2 Persistence and degradability**

<b>Biodegradability</b>	Glyphosate potassium salt: Not readily biodegradable.
Blanket	Glyphosate potassium salt: Koc: 884

**12.3 Bioaccumulative potential**

<b>Bioaccumulation</b>	Glyphosate potassium salt: Bioconcentration factor (BCF) < 1
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**12.4 Mobility in soil**

<b>Mobility in soil</b>	Glyphosate potassium salt: Variable, depending on temperature, soil type, soil moisture, soil pH and organic matter content.
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**12.5 Results of PBT and vPvB assessment**

<b>PBT and vPvB assessment</b>	Glyphosate potassium salt: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
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**12.6 Endocrine disrupting properties**

<b>Rate</b>	This substance/mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57(f) of REACH Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100 at levels of 0.1% or higher.
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**12.7 Other harmful effects**

<b>Additional ecological information</b>	There are no other significant effects.
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**SECTION 13: WASTE CONSIDERATIONS****13.1 Waste disposal methods**

<b>Product</b>	In accordance with applicable regulations and, if necessary, after consultation with the management body and local authorities, the product may be disposed of in a landfill or incinerator.
<b>Uncleaned packaging</b>	Empty the packaging of any remaining product.  Rinse containers three times. Add water to the remaining suspension. Empty any residue into the application device. Do not reuse empty packaging. Not completely emptied packaging should be disposed of as hazardous waste. Return empty packaging to the point of sale where the product was purchased.
<b>Waste code</b>	<b>02 01 08*</b> Agrochemical waste containing dangerous substances

**Legal basis**

Act of 14 December 2012 on waste, Journal of Laws of 2013, item 21, as amended.  
 Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws of 2013, item 888, as amended.  
 Regulation of the Minister of the Environment of 30 April 2013 on waste landfills, Journal of Laws of 2013, item 523, as amended.  
 Regulation of the Minister of the Environment of 13 September 2013 on determining qualifications in the field of waste management, Journal of Laws of 2013, item 1186.  
 Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue, Journal of Laws 2020, item 10.  
 Regulation of the Minister of Climate of September 11, 2020, on detailed requirements for waste storage, Journal of Laws 2020, item 1742

ACT of 11 May 2001 on the obligations of entrepreneurs in the scope of management of certain waste and on the product fee, Journal of Laws of 2001 No. 63 item 639, as amended.

**SECTION 14: TRANSPORT INFORMATION****ADR/RID/ADN**

14.1 UN number or ID number	<b>3082</b>
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID, NOS (GLYPHOSATE POTASSIUM SALT SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group 14.5	III
Environmental hazards Hazard	YES
identification number Tunnel restriction code	90 -

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This classification generally does not apply to tanker or inland waterway transport. For further information, please contact the manufacturer.

**IMDG**

14.1 UN number or ID number	<b>3082</b>
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS  (GLYPHOSATE POTASSIUM SALT SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group 14.5	III
Environmental hazards	YES

**IATA**

14.1 UN number or ID number	<b>3082</b>
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS  (GLYPHOSATE POTASSIUM SALT SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group 14.5	III
Environmental hazards	YES

**14.6 Special precautions for users**

See sections 6 to 8 of this safety data sheet.

**14.7 Bulk maritime transport in accordance with IMO instruments**

There is no bulk transport.

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## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations specific to the substance or mixture**

Act of 8 March 2013 on plant protection products, Journal of Laws of 2013, item 455, as amended.

Regulation of the Minister of Agriculture and Rural Development of 24 June 2002 on occupational health and safety during the use and storage of plant protection products and mineral and organic-mineral fertilizers, Journal of Laws of 2002, No. 99, item 896, as amended.

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, OJ L 309 of 24.11.2009 as amended.

COMMISSION REGULATION (EU) No 547/2011 of 8 June 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards labelling requirements for plant protection products, OJ L 155, 11.6.2011, as amended.

COMMISSION IMPLEMENTING REGULATION (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the list of approved active substances, OJ L 153, 11.6.2011, as amended.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, and amending Directive 1999/45/EC and

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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 EU L 396 of 30 December 2006) as amended

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling 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 EU L 353 of 31 December 2008, as amended.

Act of 25 February 2011 on chemical substances and their mixtures, Journal of Laws of 2011, No. 63, item 322, as amended.

Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the presence of chemical factors in the workplace, Journal of Laws of 2005, No. 11, item 86, as amended.

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC, as amended

Regulation of the Minister of Labour and Social Policy of 26 September 1997 on general occupational health and safety regulations, Journal of Laws of 1997, No. 129, item 844, as amended.

Regulation of the Minister of Labour and Social Policy of 14 March 2000 on occupational health and safety during manual transport work, Journal of Laws of 2000, No. 26, item 313, as amended.

Act of 26 June 1974 – Labor Code, Journal of Laws 1974, No. 24, item 141, as amended.

Act of 27 April 2001 - Environmental Protection Law, Journal of Laws of 2001, No. 62, item 627, as amended.

Announcement of the Minister of Climate and Environment of August 4, 2023, regarding the rates of fees for using the environment for 2024, MP2023 item 914, as amended.

Act of 9 October 2015 amending the Act on providing information on the environment and its protection, public participation in environmental protection and on environmental impact assessments and certain other acts, Journal of Laws of 2015, item 1936, as amended.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957, Journal of Laws 1975 No. 35 item 189, as amended.

Act of 19 August 2011 on the transport of dangerous goods, Journal of Laws of 2011, No. 227, item 1367, as amended.

Regulation of the Minister of Transport, Construction and Maritime Economy of 15 February 2012 on examinations for drivers transporting dangerous goods, Journal of Laws of 2012, item 191, as amended.

Regulation of the Minister of Health and Social Welfare of 30 May 1996 on conducting medical examinations of employees, the scope of preventive health care for employees and medical certificates issued for the purposes provided for in the Labor Code, Journal of Laws of 1996, No. 69, item 332, as amended.

REGULATION OF THE COUNCIL OF MINISTERS of 30 June 2009 on occupational diseases, Journal of Laws of 2009 No. 105 item 869 as amended.

Regulation of the Minister of Development of 29 January 2016 on the types and quantities of hazardous substances present in a plant, which determine whether the plant is classified as a plant with an increased or high risk of a serious industrial accident, Journal of Laws of 2016, item 138.

Regulation of the Minister of Maritime Economy and Inland Navigation of 12 July 2019 on substances particularly harmful to the aquatic environment and the conditions that must be met when discharging sewage into waters or soil, as well as when discharging rainwater or meltwater into waters or water facilities, Journal of Laws of 2019, item 1311.

**Additional information**

WHO classification: U (No significant hazard during normal use)

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SP 1 Do not contaminate waters with the product or its packaging. Do not wash equipment near surface waters. Avoid water pollution through drainage ditches from farms and roads.  
Product dangerous to bees.

**Legal acts on the prevention of major accidents** It is subject to regulations relating to the prevention of major accidents.  
Annex I, List of Hazardous Substances, No. E2

**15.2 Chemical safety assessment**

A chemical safety assessment is not required.

**SECTION 16: OTHER INFORMATION****Text of the H-phrases listed in Section 3**

H302	Harmful if swallowed.
H315	Irritates the skin.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms**

ADN	European Agreement on the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Estimated acute toxicity
CAS-No.	Chemical Abstracts Service assigned number to a chemical substance
ECx	Effective concentration – the effective concentration of a substance that causes a reaction at x% of the maximum value
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European standards
EU	European Union
IATA	International Air Transport Association - International Air Transport Association Airborne
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Median concentration causing x% inhibition of a given parameter, e.g. growth in a given time period
IMDG	International Maritime Dangerous Goods Code
LCx	Lethal concentration - concentration at which death is observed in x% of tested animals within a specified time period
LDx	Lethal dose – the dose at which death is observed in x% of tested animals within a specified time period.
LOEC/LOEL	The lowest concentration/level at which a significant effect of a toxic substance occurs.
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships - International Convention for the Prevention of Pollution from Ships
Month	Month(s)

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NOSE	Not otherwise specified
NDS	The highest permissible concentration is the weighted average value of the concentration, the impact of which on an employee during an 8-hour daily and average weekly working time, throughout the period of his professional activity, should not cause any negative changes in his health condition or in the health condition of his future generations.
NDSch	The highest allowable momentary concentration – the average concentration value that should not cause negative changes in the employee's health if it occurs in the work environment for no longer than 15 minutes and no more than twice during a shift, with an interval of no less than 1 hour.
NDSP	Highest permissible ceiling concentration – concentration value that cannot be exceeded at any time in the working environment due to a threat to the health or life of an employee.
NOEC/NOEL	No Observed Effect Concentration/Level
EC number A	reference number used in the European Union to identify dangerous substances, in particular those registered in the European Inventory of Existing Commercial Chemical Substances (EINECS) or in the European List of Notified Chemical Substances
OECD	Organisation for Economic Co-operation and Development
RID	Regulations on the international carriage of dangerous goods by rail
STEL	Permissible short-term exposure limits
TWA	Time-weighted average
UN	United Nations
WHO	World Health Organization

The information provided in this safety data sheet complies with the requirements of Regulation (EC) No 1907/2006 and Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006 (and any subsequent amendments). This data sheet supplements the user instructions but does not replace them. The information it contains is based on the current state of knowledge at the time of preparation of the data sheet. The required information is in accordance with current EC legislation. Users are reminded of the potential risks associated with using the product other than for its intended purpose, and of the obligation to comply with any additional national requirements.

**Reason for update:** Section 2: Hazard identification. Section 4: First aid measures.  
Section 12: Ecological information. Section 14: Transport information.  
Section 15: Regulatory information.

The most recent changes are noted in the margin. This version replaces all previous ones.