SAFETY DATA SHEET

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

1.1. **Product identifier:**
DropFor

1.2. **Relevant identified uses of the substance or mixture and uses advised against:**
Additive for spray pesticides, for consumer and professional use.

1.3. **Details of the supplier of the safety data sheet:**

Information about the distributor/mixture manufacturer downstream user:
Agronauta Kft.
2038 Sóskút, Rákóczi u. 8.
Hungary
Tel: +36-30-9703705

1.3.1. Responsible person: Agronauta Kft.
E-mail: bela.torok@agronauta.hu

1.4. **Emergency telephone number:** *Please fill in*

SECTION 2: HAZARDS IDENTIFICATION

2.1. **Classification of the substance or mixture:**

Classification according to Regulation (EC) No 1272/2008 (CLP):

Not considered as hazardous mixture.

Hazard statements: No hazard statements.

2.2. **Label elements:**

Hazard statements: No hazard statements.

Precautionary statements:
P102 – Keep out of reach of children.
P270 – Do not eat, drink or smoke when using this product.
P273 – Avoid release to the environment.
P501 – Dispose of contents/container in accordance with local regulations.

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

SP1 – Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
SPe3 – To protect aquatic organisms/non-target plants/non-target arthropods/insects respect an unsprayed buffer zone of **5 m** to non-agricultural land/surface water bodies.

2.3. **Other hazards:**
The product has no other known specific hazards for human or environment.
The ingredients of the product do not meet the criteria for PBT or vPvB substances in accordance with Annex XIII of Regulation 1907/2006/EC.
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances:**
Not applicable.

3.2. **Mixtures:**

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Sorbitan monolaurate, ethoxylated*	9005-64-5	500-018-3	-	50	-	not classified	-
Sorbitan laurate*	1338-39-2	215-663-3	-	20	-	not classified	-

*: Classification specified by the manufacturer; the substance is not listed in Annex VI of the Regulation (EC) No 1272/2008.

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures:**
General information: Take off contaminated clothing immediately.
INGESTION:
Measures:
- Rinse mouth with 1-2 glasses of water.
- Call a physician.
- Do not give anything by mouth to an unconscious person.
- No specific antidote.

INHALATION:
Measures:
- Take the victim into fresh air.

SKIN CONTACT:
Measures:
- Wash the skin with plenty of water.

EYE CONTACT:
Measures:
- In case of contact with eyes, flush with plenty of water holding eyelids apart (for at least 15 minutes).

4.2. **Most important symptoms and effects, both acute and delayed:**
The most important acute and delayed symptoms and effects are contained in Section 11.

4.3. **Indication of any immediate medical attention and special treatment needed:**
No special treatment needed; treat symptomatically (decontamination, control of vital functions). No known specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1. **Extinguishing media:**

5.1.1. **Suitable extinguishing media:**
Water, carbon dioxide foam, powder.

5.1.2. **Unsuitable extinguishing media:**
No data available.

5.2. **Special hazards arising from the substance or mixture:**
The product is not flammable. Its vapours are heavier than air.
In case of fire, smoke and other combustion products may be formed; the inhalation of such combustion products can have serious adverse effects on health.

5.3. **Advice for firefighters:**
Wear full chemical resistant protective clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

6.1.1. **For non-emergency personnel:**

Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.

6.1.2. **For emergency responders:**

For information on personal protective equipment, see Section 8.

6.2. **Environmental precautions:**

Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. **Methods and material for containment and cleaning up:**

Collect the spilled product with appropriate absorbent, then place into a suitable, closed, properly labelled waste container for removal/disposal.

6.4. **Reference to other sections:**

For further and detailed information see Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. **Precautions for safe handling:**

Observe conventional hygiene precautions.

Technical measures:

Wear appropriate personal protective equipment.

For preparation: protective clothing, protective gloves, protective glasses. Pay attention to the regulations concerning the plant-protection products used together with the product.

For application: protective clothing, protective gloves, protective glasses. Pay attention to the regulations concerning the plant-protection products used together with the product.

Precautions against fire and explosion:

No special measures required.

7.2. **Conditions for safe storage, including any incompatibilities:**

Technical measures and storage condition:

Store in a closed container, in a cool place.

Keep away from food, luxury goods and animal feed.

Incompatible materials: See Section 10.5.

Packaging material: HDPE (high-density polyethylene), LDPE (low-density polyethylene), polypropylene, glass, steel.

7.3. **Specific end use(s):**

No specific instructions available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters:**

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):
The components of the mixture are not regulated with exposure limit value.

DNEL values		**Oral exposure**		**Dermal exposure**		**Inhalative exposure**	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no notes
Marine water	no data	no notes

Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	no data	no notes

8.2. **Exposure controls:**

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. **Appropriate engineering controls:**

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

8.2.2. **Individual protection measures, such as personal protective equipment:**

Observe the pertinent regulations on industrial safety and basic hygiene rules.

1. **Eye/face protection:** Use appropriate tightly fitting protective glasses (EN ISO 16321-1:2022; EN 166).
2. **Skin protection:**
    a. **Hand protection:** Use appropriate, chemical resistant protective gloves (EN 374).
    Appropriate glove material: nitrile rubber (0,4 mm), chloroprene rubber (0,5 mm), PVC (0,7 mm). Requirements: level: 6, breakthrough time: > 480 min.
    The above given specification is based on test data, literature data or information given by the glove manufacturers or the analogy of similar substances. Due to many different factors of application (such as temperature conditions) it should be considered that in practice the usability of chemical protective gloves can last for a significantly shorter period than the time defined by the experiments regarding breakthrough time. As there are many types, the instructions of the manufacturer must be observed.
    b. **Other:** Use appropriate, closed protective clothing.
3. **Respiratory protection:** Not required.
4. **Thermal hazards:** No thermal hazards known.

8.2.3. **Environmental exposure controls:**

No specific prescription.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. **Information on basic physical and chemical properties:**

	Parameter	Value / Test method / Remarks
1.	Physical state	liquid
2.	Colour	yellowish, clear
3.	Odour, odour threshold	slight, characteristic
4.	Melting point/freezing point	no data*
5.	Boiling point or initial boiling point and boiling range	no data*
6.	Flammability	not flammable
7.	Lower and upper explosion limit	no data*
8.	Flash point	no data*
9.	Auto-ignition temperature	no data*
10.	Decomposition temperature	no data*
11.	pH	6,5 ± 1 (1 % solution)
12.	Kinematic viscosity	no data*
13.	Solubility in water in other solvents	soluble no data*
14.	Partition coefficient n-octanol/water (log value)	no data*
15.	Vapour pressure	no data*
16.	Density and/or relative density	1,05-1,15 g/cm^3 (20 °C)
17.	Relative vapour density	no data*
18.	Particle characteristics	no data*

9.2. **Other information:**

9.2.1. **Information with regard to physical hazard classes:**
No further data available or not applicable for the product.

9.2.2. **Other safety characteristics:**
No other characteristics available.

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity:**
Not corrosive to metals.
Does not form flammable gases with water.

10.2. **Chemical stability:**
Stable under recommended storage and handling conditions.

10.3. **Possibility of hazardous reactions:**
No hazardous reactions known.

10.4. **Conditions to avoid:**
No conditions to avoid known.

10.5. **Incompatible materials:**
Strong oxidising agents.

10.6. **Hazardous decomposition products:**
No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. **Information on hazard classes as defined in Regulation (EC) No 1272/2008:**
Acute toxicity: Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

11.1.1. **Summaries of the information derived from the test conducted:**
No data available.

11.1.2. **Relevant toxicological properties:**
Information about the product:
Acute toxicity:
LD50 (oral, rat): > 2000 mg/kg
Information about the components:
Acute toxicity:
Sorbitan monolaurate, ethoxylated (CAS: 9005-64-5):
LD50 (dermal, guinea pig): > 3000 mg/kg
NOAEL (mouse, repeated exposure): < 5 %/730 days
Skin corrosion/irritation:
Sorbitan laurate (CAS: 1338-39-2):
May cause skin irritation (rabbit, 30 days).
Serious eye damage/irritation:
According to literature data, none of the substances caused eye irritation.
Germ cell mutagenicity:
The components are not considered as mutagen, by analogy.
Carcinogenicity:
Sorbitan laurate (CAS: 1338-39-2):
A study with mice has shown that large dermal doses promoted the formation of cancer. A co-carcinogen activity was observed.
The results cannot be extrapolated to humans.
The data given are from the safety data sheets of the suppliers.

11.1.3. Information on likely routes of exposure:
Ingestion, inhalation, skin contact, eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:
No data available.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:
No data available.

11.1.6. Interactive effects:
No data available.

11.1.7. Absence of specific data:
No information.

11.2. Information on other hazards:
Endocrine disrupting properties:
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.
Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:
The mixture is not classified as hazardous for the environment.
LC50 (Brachydanio rerio): > 100 mg/l/72 h (Hamilton-Buchanan)
EC50i (Daphnia magna): > 120 mg/l/48 h (Straus)
ErC50 (Pseudokirchneriella subcapitata): > 100 mg/l/72 h
LD50 (Apis mellifera): > 10 µg/bee/7 days

12.2. Persistence and degradability:
Information about the component:
Sorbitan monolaurate, ethoxylated (CAS: 9005-64-5):
Biodegradable.
Its degradability is 48 % in 28 days according to ISO 14593.

12.3. Bioaccumulative potential:
Not applicable.

12.4. Mobility in soil:
The substance components are washed away and enter one of the aquatic compartments.

12.5. Results of PBT and vPvB assessment:
The product does not contain substances that meet the criteria for PBT or vPvB substances.

12.6. Endocrine disrupting properties:
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

12.7. Other adverse effects:
No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:
Disposal according to the local regulations.

13.1.1. Information regarding the disposal of the product:
Dispose of in accordance with applicable regulations.
Avoid uncontrolled release into the environment.
List of Waste Code:
No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

13.1.2. Information regarding the disposal of the packaging:
Dispose of in accordance with applicable regulations.
The empty, cleaned packaging must not be recycled.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:
No data available.

13.1.4. Sewage disposal:
No data available.

13.1.5. Special precautions for any recommended waste treatment:
No data available.

SECTION 14: TRANSPORT INFORMATION

ADR/RID; ADN; IMDG; IATA:
Not subject to the conventions of carriage of dangerous goods.

14.1. **UN number or ID number:**
No UN or ID number.

14.2. **UN proper shipping name:**
No proper shipping name.

14.3. **Transport hazard class(es):**
No transport hazard classes.

14.4. **Packing group:**
No packing group.

14.5. **Environmental hazards:**
Environmentally hazardous: No.

14.6. **Special precautions for user:**
No relevant information available.

14.7. **Maritime transport in bulk according to IMO instruments:**
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

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, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

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 (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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 (EEC) No 79/117 and (EEC) No 91/414
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

15.2. **Chemical safety assessment:**
Chemical safety assessment has not been carried out, no information about the components has been provided by the suppliers.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: No information.

Literature references / data sources:
Safety data sheet of similar product (13. 10. 2025, version 1, EN).

Methods used for the classification according to Regulation (EC) No 1272/2008:
Based on the calculation method carried out on the basis of the known hazards of the components, not considered as a hazardous mixture.

Relevant hazard statements (code and full text) of Sections 2 and 3:
EUH 401 – To avoid risks to human health and the environment, comply with the instructions for use.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
AOX: Adsorbable organic halides.
BCF: Bioconcentration factor.
BOD: Biological Oxygen Demand.
CAS number: Chemical Abstract Service number.
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR effects: Carcinogenic, mutagenic, reprotoxic effects.
COD: Chemical Oxygen Demand.
CSA: Chemical Safety Assessment.
CSR: Chemical Safety Report.
DNEL: Derived-No-Effect-Level.
ECHA: European Chemical Agency.
EC: European Community.
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EuPCS: European Product Categorisation System.
EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC_{50}: Lethal concentration resulting in 50 % mortality.
LD_{50}: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products or of Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.
The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.
The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.
Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.
It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by:
MSDS-Europe
International branch of ToxInfo Kft.

Professional help regarding the explanation of the safety data sheet:
+36 70 335 8480; info@msds-europe.com
www.msds-europe.com