

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Teppeki
Product code	: IKI-220 500WG, C01828
Type of product	: WG (Water dispersible granule)
Other means of identification	: Flonicamid 50%

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

Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Insecticide
Function or use category	: Plant protection products

1.3. Details of the supplier of the safety data sheet

Certis Belchim B.V.,
Suite 5, 3 Riverside, Granta Park,
Great Abington Cambridgeshire, CB21 6AD.
United Kingdom
T +44 (0)1223 652500, F +44 (0)1223 891210
info.uk@certisbelchim.com, www.certisbelchim.co.uk

1.4. Emergency telephone number

Emergency number	: +44 1235 239670 24 hours a day, 7 days a week
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2	H319
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P264 - Wash contaminated body parts thoroughly after handling.
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.

EUH-statements : EUH208 - Contains Disodium maleate (ISO) (371-47-1). May produce an allergic reaction.
 EUH210 - Safety data sheet available on request.
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flonicamid (Pesticide and active ingredients)	CAS-No.: 158062-67-0 EC Index-No.: 616-216-00-9	50%<C<80%	PMT, EUH450 vPvM, EUH451 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)
Kaolin	CAS-No.: 1332-58-7 EC-No.: 310-194-1	5%<C<15%	Not classified
Silicon dioxide	CAS-No.: 7631-86-9 EC-No.: 231-545-4	C<10%	Not classified
Methylnaphtalenesulphonic acid/formaldehyde, copolymer, sodium salt	CAS-No.: 81065-51-2	1%<C<5%	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt	CAS-No.: 37199-81-8	1%<C<5%	Eye Irrit. 2, H319
Docusate sodium	CAS-No.: 577-11-7 EC-No.: 209-406-4 REACH-no: 01-2119491296-29	1%<C<5%	Skin Irrit. 2, H315 Eye Dam. 1, H318
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	1%<C<5%	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Disodium maleate	CAS-No.: 371-47-1 EC-No.: 206-738-1	0.1%<C<0.5 %	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
toluene	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	C<0.2%	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Consult a doctor/medical service if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Move the affected person to the fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Remove clothing before washing. Wash skin with mild soap and water. If case of redness or irritation, call a doctor. Wash skin with plenty of water.
First-aid measures after eye contact	: Immediately rinse with plenty of water. Do not apply (chemical) neutralizing agents. Consult an ophthalmologist if irritation persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not give an unconscious person anything to drink. Do not induce vomiting. Get immediate medical advice/attention. Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	: First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: Causes serious eye irritation. Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Polyvalent foam. ABC-powder. Carbon dioxide. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic and corrosive vapours may be released. Hydrogen cyanide. Hydrofluoric Acid. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Gloves. Protective non-flammable clothing. Dust cloud production: compressed air/oxygen apparatus. Heat/fire exposure: compressed air/oxygen apparatus. Gas-tight suit. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid dust production. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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For non-emergency personnel

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| Protective equipment | : Concerning personal protective equipment to use, see section 8. |
| Emergency procedures | : Ventilate spillage area. Avoid contact with eyes. Do not breathe dust. Avoid contact with skin and eyes. |

For emergency responders

- | | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Protective gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. |

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Do not flush down sewers. Stop leak if safe to do so. Contain the spilled material by bunding. Knock down/dilute dust cloud with water spray.

6.3. Methods and material for containment and cleaning up

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| For containment | : Knock down/dilute dust cloud with water spray. Take up liquid spill into inert absorbent material. Sweep or shovel spills into appropriate container for disposal. Store in tightly closed, leak-proof containers. |
| Methods for cleaning up | : Mechanically recover the product. Clean contaminated surfaces with an excess of water. |
| Other information | : Dispose of contaminated materials in accordance with current regulations. Wash clothing and equipment after handling. Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid dust formation. Do not discharge the waste into the drain. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety practice. If on skin, take off contaminated clothing. Wash clothing and equipment after handling. Skin contact : refer to section 4.1. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

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|----------------------------|---|
| Technical measures | : Keep in a cool, well-ventilated place away from heat. |
| Storage conditions | : Keep the container hermetically sealed. Store at ambient temperature. |
| Heat and ignition sources | : Protect from heat and direct sunlight. Keep away from ignition sources. |
| Special rules on packaging | : Store in original container. |
| Packaging materials | : Always store product in container of same material as original container. |

7.3. Specific end use(s)

For further information see section 1. Insecticide. Restricted to professional users.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Kaolin (1332-58-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Kaolin

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Kaolin (1332-58-7)	
WEL TWA (OEL TWA)	2 mg/m ³ respirable dust
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
United Kingdom - Occupational Exposure Limits	
Local name	Toluene
WEL TWA (OEL TWA)	191 mg/m ³
	50 ppm
WEL STEL (OEL STEL)	384 mg/m ³
	100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Eye and face protection

Eye protection:

Safety glasses. If dust are formed : Safety glasses with side shields

Skin protection

Skin and body protection:

protective clothing

Hand protection:

Wear protective gloves. Breakthrough time : refer to the recommendations of the supplier. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard ISO 374-1

Respiratory protection

Respiratory protection:

Dust production: dust mask with filter type P2

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: brown.
Appearance	: Granulate (GR).
Odour	: Faint odour of ammonia.
Odour threshold	: Not available
Melting point	: Not available

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Freezing point	: Not applicable
Boiling point	: Not applicable
Flammability	: Not flammable. Non flammable.
Explosive properties	: Not applicable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable Not sustained combustibility
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: 8.3 (1%; 22°C)
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 543 kg/m ³
Relative density	: 0.543
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

Information with regard to physical hazard classes

Not sustained combustibility : Yes

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid dust production. Keep away from naked flames/heat.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

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Teppeki	
LD50 oral rat	> 2000 mg/kg (OECD 423)
LD50 dermal rat	> 2000 mg/kg (OECD 402)
LC50 Inhalation - Rat	> 5.36 mg/l
Flonicamid (158062-67-0)	
LD50 dermal rat	> 5000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 4.9 mg/l/4h (OECD 403 method)
Methylnaphtalenesulphonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)	
LD50 oral rat	4786 mg/kg bodyweight
Docusate sodium (577-11-7)	
LD50 oral rat	> 2100 mg/kg bodyweight (OECD 401)
LD50 dermal rabbit	> 10000 mg/kg (OECD 402)
LC50 Inhalation - Rat (Dust/Mist)	20 mg/l air
Silicon dioxide (7631-86-9)	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401)
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5.01 mg/l (OECD 436)
Isotridecanol, ethoxylated (69011-36-5)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402)
toluene (108-88-3)	
LD50 oral rat	5580 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8.3 (1%; 22°C)
Additional information	: Not irritating to rabbits on cutaneous application (OECD 404 method)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 8.3 (1%; 22°C)
Additional information	: Irritating to rabbits on ocular application (OECD 405 method)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Does not cause cutaneous sensitisation for guinea-pigs (OECD 406 method)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Methylnaphtalenesulphonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)	
Additional information	(OECD 471 method). (OECD 476 method)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Flonicamid (158062-67-0)	
NOAEL (chronic, oral, animal/male, 2 years)	7.32 – 44.1 mg/kg bodyweight
Silicon dioxide (7631-86-9)	
NOAEL (chronic, oral, animal/male, 2 years)	1800 – 3200 mg/kg bodyweight (OECD 543)

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Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified

Docusate sodium (577-11-7)

NOAEL (oral, rat)	> 1000 mg/kg bodyweight (OECD 408)
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Silicon dioxide (7631-86-9)

NOAEL (oral, rat)	> 1000 mg/kg bodyweight (OECD 407)
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Isotridecanol, ethoxylated (69011-36-5)

NOAEL (oral, rat)	500 mg/kg bw/day
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Disodium maleate (371-47-1)

STOT-single exposure	May cause respiratory irritation.
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toluene (108-88-3)

LOAEL (oral, rat)	1250 mg/kg bodyweight
NOAEL (oral, rat)	625 mg/kg bodyweight
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

toluene (108-88-3)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not classified

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Viscosity, kinematic	Not applicable
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11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

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LC50 - Fish [1]	> 100 mg/l (Oncorhynchus mykiss)
EC50 - Crustacea [1]	> 100 mg/l (Daphnia magna)
ErC50 algae	> 100 mg/l (Pseudokirchneriella subcapitata)

Flonicamid (158062-67-0)

LC50 - Fish [1]	> 100 mg/l (OECD 203 [Lepomis macrochirus])
EC50 - Crustacea [1]	> 100 mg/l (OECD 202 [Daphnia magna])
ErC50 algae	> 100 mg/l (OECD 201 [Pseudokirchneriella subcapitata])

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Flonicamid (158062-67-0)	
NOEC chronic fish	10 mg/l (OECD 210 [Pimephales promelas])
NOEC chronic crustacea	3.1 mg/l (OECD 211 [Daphnia magna])
NOEC chronic algae	46 mg/l (OECD 201)
Methylnaphtalenesulphonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	34 mg/l (OECD 202 [Daphnia magna])
ErC50 algae	74.4 mg/l (DIN 38412 [Desmodesmus subspicatus])
Docusate sodium (577-11-7)	
LC50 - Fish [1]	49 mg/l (Danio rerio)
EC50 - Crustacea [1]	6.6 mg/l (Daphnia magna)
EC50 - Other aquatic organisms [1]	164 mg/l (DIN 38412-8 [Pseudomonas putida])
ErC50 algae	83 mg/l (Desmodesmus subspicatus)
Silicon dioxide (7631-86-9)	
LC50 - Fish [1]	> 1000 mg/l (Danio rerio [OECD 203])
EC50 - Crustacea [1]	> 1000 mg/l (Daphnia magna [OECD 202])
EC50 72h - Algae [1]	> 173.1 mg/l (Desmodesmus subspicatus [OECD 201])
NOEC chronic crustacea	68 mg/l (Daphnia magna [OECD 211])
NOEC chronic algae	173.1 mg/l (Desmodesmus subspicatus [OECD 201])
Isotridecanol, ethoxylated (69011-36-5)	
ErC50 algae	3.4 mg/l (EU C.3 [Desmodesmus subspicatus])
NOEC chronic crustacea	218 µg/l (OECD 211 [Daphnia magna])
toluene (108-88-3)	
LC50 - Fish [1]	5.5 mg/l (Oncorhynchus kisutch)
EC50 72h - Algae [1]	134 mg/l (Chlamydomonas angulosa)
NOEC chronic fish	1.39 mg/l (Oncorhynchus kisutch)

12.2. Persistence and degradability

Teppeki	
Persistence and degradability	Contains non readily biodegradable component(s).
Docusate sodium (577-11-7)	
Biodegradation	91 % (ISO 14593)
toluene (108-88-3)	
Biodegradation	86 % (APHA)

12.3. Bioaccumulative potential

Teppeki	
Partition coefficient n-octanol/water (Log Kow)	Not applicable

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Flonicamid (158062-67-0)

Partition coefficient n-octanol/water (Log Kow) -0.24 (20°C)

Docusate sodium (577-11-7)

BCF - Fish [1] 0.89 – 9.3 l/kg (Cyprinus carpio)

toluene (108-88-3)

Partition coefficient n-octanol/water (Log Kow) 2.73 (20°C)

12.4. Mobility in soil

Flonicamid (158062-67-0)

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 0.77

Docusate sodium (577-11-7)

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 0.32 – 1.1 (SRC PCKOCWIN v2.0)

toluene (108-88-3)

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 2.3

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not dispose of with domestic waste. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of in accordance with relevant local regulations. Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

Ecological waste information : Do not discharge into drains or rivers.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				

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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

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

EU-Regulations

REACH Annex XVII (Restriction List)
Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)
Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

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Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Not applicable for preparations

The active ingredient used in Plant protection products is already compliant as the active substances are exempted according to Article 15 of REACH and approved as registered according to Regulation 1107/2009.

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	SDS EU format	Modified
1.1	Other means of identification	Added
1.2	Function or use category	Added
2.2	EUH-statements	Added
2.2	Precautionary statements (CLP)	Modified
3	Composition/information on ingredients	Modified
4.1	First-aid measures for first aider	Added
4.1	First-aid measures after skin contact	Modified
4.1	First-aid measures after inhalation	Modified
4.1	First-aid measures after ingestion	Modified
4.1	First-aid measures after eye contact	Modified
4.2	Symptoms/effects after skin contact	Added
4.2	Symptoms/effects after ingestion	Added
4.2	Symptoms/effects after eye contact	Modified
5.1	Suitable extinguishing media	Modified
5.2	Explosion hazard	Added
5.2	Fire hazard	Added
5.3	Firefighting instructions	Modified
5.3	Protection during firefighting	Modified
6.1	Emergency procedures	Added
6.1	General measures	Modified
6.1	Protective equipment	Modified

Indication of changes		
Section	Changed item	Comments
6.1	Emergency procedures	Modified
6.2	Environmental precautions	Modified
6.3	Methods for cleaning up	Modified
6.3	Other information	Modified
6.4	Reference to other sections (8, 13)	Modified
7.1	Additional hazards when processed	Added
7.1	Hygiene measures	Modified
7.1	Precautions for safe handling	Modified
7.2	Technical measures	Added
7.2	Packaging materials	Added
7.3	Specific end uses	Added
8.2	Environmental exposure controls	Added
8.2	Personal protective equipment	Added
8.2	Eye protection	Modified
8.2	Appropriate engineering controls	Modified
9	Flammability (solid, gas)	Added
9	Freezing point	Added
9	Log Kow	Added
9	pH	Added
9	Oxidising properties	Removed
9	Explosive properties	Modified
9	Auto-ignition temperature	Modified
9	Solubility	Modified
9	Relative density	Modified
9	pH solution	Removed
9	Density	Modified
9.1	Explosive limits (vol %)	Added
10.4	Conditions to avoid	Modified
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Modified

Indication of changes		
Section	Changed item	Comments
11.1	LD50 dermal rat	Modified
11.1	LD50 oral rat	Modified
12.1	ErC50 (algae)	Modified
12.1	LC50 fish 1	Modified
12.1	EC50 Daphnia 1	Modified
12.2	Persistence and degradability	Added
13.1	Sewage disposal recommendations	Added
13.1	Additional information	Added
13.1	Product/Packaging disposal recommendations	Modified
13.1	Waste treatment methods	Modified
15.2	Chemical safety assessment	Modified
16	Data sources	Modified
16	Abbreviations and acronyms	Modified

Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstracts Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

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Abbreviations and acronyms:	
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Data sources	: SDS of suppliers. ECHA (European Chemicals Agency). 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.
Other information	: The United Kingdom (UK) left the European Union (EU) on 31/01/2020. The classification and labelling regime used within Great Britain (GB) is based on the EU regulatory regime in force at the time of UK leaving the EU. All classification and labelling ensures the safe use of the product and is based on the best scientific knowledge available to us. Information will be updated as the UK regulators publish any new classification and labelling regulation.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

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Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
PMT	Persistent, mobile and toxic
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
vPvM	Very persistent and very mobile
EUH450	Can cause long-lasting and diffuse contamination of water resources.
EUH451	Can cause very long-lasting and diffuse contamination of water resources.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Disodium maleate . May produce an allergic reaction.
EUH210	Safety data sheet available on request.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Irrit. 2	H319	

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.