SUMITOMO CHEMICAL AGRO EUROPE S. A. S.

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

OXOLINIC ACID 20 WP

Ref. OXO20WPCLP/EU/100gb

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

1.1. Product identifier

Oxolinic acid, 20% wettable powder
GIFAP Code: WP
EC number: not applicable

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

Bactericide (agricultural use)
Not for public use

1.3. Details of the supplier of the safety data sheet

SUMITOMO CHEMICAL AGRO EUROPE S.A.S.
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Europe +44 (0) 1235 239 670
Middle East & Africa +44 (0) 1235 239 671

1.4. Emergency Telephone number 24/24hrs

Europe +44 (0) 1235 239 670
Middle East & Africa +44 (0) 1235 239 671

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classified as hazardous according to regulation (EC) No 1272/2008 (CLP)

Signal word(s) **Warning**

Pictogram (s)

STOT SE Cat 2 **Aquatic Chronic Cat 2**
STOT RE Cat 2

Hazard statement(s)

H371: May cause damage to organs.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

2.2. Label elements

Signal word(s) **Warning**

Pictogram (s)

STOT SE Cat 2 **Aquatic Chronic Cat 2**
STOT RE Cat 2

Hazard statement(s)
H371: May cause damage to organs.
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H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P260: Do not breathe dust/fume/mist/vapours/spray.
P270: Do not eat, drink or smoke when using this product.
P308+P311: If exposed or concerned: Call a POISON CENTER/doctor
P501: Dispose of contents/container in accordance with local regulation.
EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

Special risks and safety precautions (Commission Regulation (EU) 547/2011):
General provisions SP 1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water).
Specific safety precautions SPe 3: To protect aquatic organisms respect an unsprayed buffer zone of (*as indicated on the label*) to surface water bodies.

2.3. Other hazards None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. This product is to be considered as a mixture in conformance to EU regulations.

Composition/Information on hazardous ingredients or with exposition limits

Number	% w/w	CAS number	Chemical name
1	20	14698-29-4	5-ethyl-5,8-dihydro-8-oxo[1,3]dioxolo[4,5-*g*]quinoline-7-carboxylic acid
2	≥ 5	112926-00-8	Silicon dioxide, chemically prepared
3	> 1	1322-93-6	Sodium diisopropylnaphthalenesulphonate
4	> 1	81065-51-2	Methyl naphthalene sulfonic acid, polymer with formaldehyde, sodium salt
5	>50	1332-58-7	hydrated alumina silicate (kaolin)

Number	EC number	Annex-1 listing	Regl 1272/2008 Pict.	Hazard statements
1	238-750-8	no	GHS07, GHS08, GHS09	H302, H332, H371, H373, H411
2	/	NA	none	none
3	/	NA	GHS07	H302, H332, H319, H335
4	/	NA	GHS05	H318
5	/	NA	none	none

Other information this product contains < 0.1% respirable quartz
SCAE code: SCAE1001 V2.10

4. FIRST AID MEASURES

4.1. Description of first aid measures

General In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation Move to fresh air. If symptoms persist, seek medical advice.
Skin Remove contaminated clothing. Wash skin immediately with water.
Eye Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
Ingestion Rinse mouth. Never induce vomiting in unconscious or confused persons. Seek medical advice.

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

May cause damage to organs. May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed
No specific recommendations.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Dry chemical powder, carbon dioxide.
Big fire: foam, water spray.

Unsuitable extinguishing media None known

5.2. Special hazards arising from the substance or mixture
May emit toxic and corrosive fumes under fire conditions (NOx, CO).

5.3. Advice for fire-fighters Wear self contained breathing apparatus. Wear suitable protective clothing and eye/face protection.

Other information Water used to extinguish a fire should not be allowed to enter the drainage system or water courses.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel Do not breathe dust. Wear protective gloves, safety goggles or face shield, and suitable protective clothing.
Remove of ignition sources.
Evacuate the danger area.

For emergency responders Do not breathe dust. Wear protective gloves (nitrile), safety goggles or face shield, and suitable protective clothing.
Remove of ignition sources.
Evacuate the danger area or consult an expert.

6.2. Environmental precautions Do not allow to escape into sewage system or water courses. Do not wash residues into drains or other waterways.

6.3. Methods and material for containment and cleaning up

Containment of a spill Do not allow to escape into sewage system or water courses.

Clean-up procedures Clean up spills immediately. Sweep up and place into sealable containers. Dig up heavily contaminated soil and place into drums. Use a damp cloth to clean floors and other objects, and also place in sealable container. Dispose of all waste and contaminated clothing in the same manner as waste chemicals (i.e. via an authorized disposal facility). Do not wash residues into drains or other waterways.

6.4. Reference to other sections For personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling The usual precautions for handling chemicals should be observed. For personal protection see section 8.

Fire and explosion prevention May form explosive dust cloud.

7.2. Conditions for safe storage, including any incompatibilities

Storage requirements Store in a dry and cool place. Keep container in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Do not drink, eat and smoke in work areas.

Other information	Do not mix with water (except for the normal preparation).
7.3. Specific end use(s)	see label on the container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

There is no national exposure limit for this product.
No chemical safety report is required for this kind of product.

8.2. Exposure controls

Appropriate engineering controls	Provide adequate ventilation.
Individual protection measures	
Respiratory	The usual precautions for handling chemicals should be observed.
Hand	Wear protective gloves of nitrile.
Eye	Wear safety goggles or face shield.
Skin and body	Wear suitable protective clothing.
Other information	Launder clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Name	***Oxolinic acid, 20% wettable powder***
Appearance	fine powder (visual inspection)
Colour	whitish (visual inspection)
Odour	no specific odour (olfactory assessment)
Odour threshold	not applicable
pH value	5-8 (1% dilution in water, room temperature, CIPAC MT-75)
Melting point/freezing point	not determined (oxolinic acid: >250°C)
Initial boiling point & boiling range	not determined (the active substance decomposes before boiling at around 320°C
Flash point	not applicable
Evaporation rate	not applicable
Flammability	not flammable (based on the components)
Upper/lower flammability or explosive limits	not determined
Vapour pressure	not determined
Vapour density	not applicable
Relative density	not determined
Bulk density	0.25-0.35 g/ml (20°C)
Solubility in water	dispersible in water (solubility of oxolinic acid: 3.2 mg/l (25°C)
Solubility in other solvents	not applicable
Partition coefficient n-octanol/water	not determined (oxolinic acid: log Pow = 0.95 (25°C)
Autoignition temperature	the active substance does not ignite up to 300°C
Decomposition temperature	the active substance decomposes around 320°C
Dynamic viscosity	not applicable
Kinematic viscosity	not applicable
Explosive properties	not determined
Oxidising properties	not determined

9.2. Other information

Relative vapour density (air = 1)	not determined
Surface tension	not determined

10. STABILITY AND REACTIVITY

10.1. Reactivity Stable under recommended storage and handling conditions (see also section 7).

10.2. Chemical stability Stable for a minimum of 2 years under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid Avoid high temperature, light, humidity.

10.5. Incompatible materials Alkaline materials, oxidizing agents.

10.6. Hazardous decomposition products
May emit toxic and corrosive fumes under fire conditions (NOx, CO). (See also section 5).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No experimental toxicological data are available on the preparation as such. The following data are applicable to a close formulation:

Name	***Oxolinic acid, 20% wettable powder (code ID: Q705)***
Acute toxicity	
Oral	LD50 rat: 2800 mg/kg (MAFF 52 Nosan no 4200)
Dermal	LD50 rat: > 2000 mg/kg (MAFF 52 Nosan no 4200)
Inhalation	LC50 rat (4 hours): >5 mg/l (nose-only) (OECD 403)
Irritation	
Skin	weakly irritating (MAFF 52 Nosan no 4200)
Eye	not irritating (MAFF 52 Nosan no 4200)
Sensitization	not sensitizing (maximisation test) (OECD 406)

The following data are applicable to the ingredient(s) listed below:

Name ***Active substance (Oxolinic acid, technical grade)***

Other toxicological information

- Genotoxicity: - positive in Ames test (Japanese guideline), chromosomal aberration test in CHL (59 Nohsan N°4200), bacterial DNA repair (Japanese guideline);
  - negative UDS (Japanese guideline), negative micronucleus (59 Nohsan no 4200).
- Carcinogenicity (rats, mice): no carcinogenic effect. (OECD guideline)
- Multigeneration reproduction study (rat): negative (OECD guideline)
- Teratogenicity studies (rat, rabbit): negative (OECD guideline)
- Acute neurotoxicity (rat): NOAEL = 6 mg/kg (OECD guideline)
- 90d-neurotoxicity (rat): NOAEL males = 19.4 mg/kg bw/day, females = 3.87 mg/kg bw/day (OECD guideline)
- STOT-single exposure: nervous system
- STOT-repeated exposure: genital organs.

Based on the available data, the classification criteria are met for the STOT SE and STOT RE hazard classes.

Information on likely routes of exposure
This product is for agricultural use; therefore the most probable routes of exposure are via skin or inhalation.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No experimental ecological data are available on the preparation as such. The following data are applicable to close formulations:

Name	***Oxolinic acid, 20% wettable powder (code ID: Q705 & TD32)***
Fish	Acute toxicity, 96h-LC50 (*Cyprinus carpio*): > 100 mg/l (Japanese guideline)
Daphnia	Acute toxicity, 48h-EC50 *(Daphnia magna)*: 7.8 mg/l (OECD 211)
Algae	Acute toxicity, (*Pseudokirchneriella subcapitata)*: 72h-ECb50: 11 mg/l ; NOECb = 0.46 mg/l 72h-ECr50: > 46 mg/l ; NOECr = 22 mg/l (OECD 201)

The following data are applicable to ingredient(s) listed below:

Name	***Active substance (Oxolinic acid, technical grade)***
Birds	Dietary toxicity, 5d-LC50 (Bobwhite quail): >1984 mg/kg bw/day (OECD 205)
Bees	Acute contact toxicity, 48h-LD50 (*Apis mellifera)*: >20 µg/bee (in-house method)
Earthworm	Acute toxicity, 14d-LC50 (*Eisenia foetida*): >1000 mg/kg dry soil (OECD 207)

12.2. Persistence and degradability

The following data are applicable to ingredient(s) listed below:

Name	***Active substance (Oxolinic acid, technical grade)***
Degradation Biotic	Not readily biodegradable
Degradation Abiotic	no data available
Biological methods for sewage treatment	
	no data available

12.3. Bioaccumulative potential

The following data are applicable to ingredient(s) listed below:

Name	***Active substance (Oxolinic acid, technical grade)***
Bioaccumulation	Partition coefficient n-octanol/water log Pow: 0.95 (25°C) (OECD 107)

12.4. Mobility in soil

The following data are applicable to ingredient(s) listed below:

Name	***Active substance (Oxolinic acid, technical grade)***
	Adsorption K_{oc} values: 126-839 for 4 soils; hardly desorbed; Therefore the substance is mobile to slightly mobile

12.5. Results of PBT and vPvB assessment

not required (no chemical safety report required).

12.6. Other adverse effects no other known adverse effects on the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Substance and/or Mixture	According to local regulations. For further advice contact manufacturer.
Contaminated packaging	According to local regulations.

14. TRANSPORT INFORMATION

Land transport ADR/RID, Sea transport IMO/IMDG, Air transport ICAO-TI/IATA-DGR:

14.1. UN Number 3077

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxolinic acid)

14.3. Transport hazard class(es)

Land transport ADR/RID class:	9	label:	9
IMO/IMDG code class:	9		
Air transport ICAO-TI/IATA-DGR class:	9		

14.4. Packing group	III	
14.5. Environmental hazards	Marine pollutant:	yes
14.6. Special precautions for user	EMS: no other special precaution required.	F-A, S-F

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the ICB Code
not applicable

15. REGULATORY INFORMATION

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

There is no specific regulation/legislation for this mixture.

15.2. Chemical safety assessment

No chemical safety assessment is required for this mixture.

16. OTHER INFORMATION

Method for evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 used for the purpose of classification:
Classification based on tests on a similar formulations and the properties of the active substance.

Changes made to the previous version: section nos 2, 3, 4, 11, 12, 14, were modified to remove any reference to directives 2001/59/EC or 1999/45/EC, add CLP classification of the formulation and ingredients, add new data and update transport classification.

Full text of hazard statement(s) used in this document:
H302: Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation
H332: Harmful if inhaled.
H335 May cause respiratory irritation.
H371: May cause damage to organs.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

This information only concerns the above mentioned product for the specific use mentioned and is not valid for such product used in combination with any other product. The information is to our best knowledge correct and complete and is given in good faith as of the date indicated. It is the user's responsibility to use this information as appropriate for his own particular use of this product.