

**QUELEX™ 200WG Herbicide**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	12.05.2022	800080005258	Date of first issue: 12.05.2022

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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Georgia and may not meet the regulatory requirements in other countries.

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

Product name : QUELEX™ 200WG Herbicide

**Manufacturer or supplier's details****COMPANY IDENTIFICATION**

**Manufacturer/importer** : Corteva Agriscience International S.a.r.l.  
Route de Suisse 160  
CH-1290 Versoix  
Switzerland

**E-mail address** : SDS@corteva.com

**Emergency telephone number** : +32 3 575 55 55

**Recommended use of the chemical and restrictions on use**

Recommended use : End use herbicide product

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**2. HAZARDS IDENTIFICATION****GHS Classification**

Eye irritation : Category 2B

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

**GHS-Labeling**

Hazard pictograms :



Signal word : Warning

Hazard statements : H320 Causes eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements : **Prevention:**  
 P264 Wash skin thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear eye protection/ face protection.

**Response:**  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P391 Collect spillage.

**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

**Components**

Chemical name	CAS-No.	Classification	MAC value mg/m <sup>3</sup> / TSEL value	Concentration (% w/w)
Halauxifen-methyl	943831-98-9	Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	10,45
florasulam (ISO)	145701-23-1	Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	9,79
Cloquintocet	88349-88-6	Aquatic Acute3; H402 Aquatic Chronic2; H411	No data available	7,06
Kaolin	1332-58-7		MPC-TWA: 8 mg/m <sup>3</sup> aerosols of predominantly fibrogenic action, Class 3 - Moderately dangerous Data Source: RU OEL	>= 10 - < 20

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Sodium lignosulfonate	8061-51-6	Eye Irrit.2A; H319	MPC-STEL: 2 mg/m <sup>3</sup> Class 3 - Moder- ately dangerous Data Source: RU OEL	>= 10 - < 20
citric acid	77-92-9	Eye Irrit.2A; H319	MPC-STEL: 1 mg/m <sup>3</sup> Class 3 - Moder- ately dangerous Data Source: RU OEL	>= 10 - < 20
Urea, polymer with formalde- hyde	9011-05-6	Acute Tox.5; H303 Acute Tox.5; H313	No data available	>= 10 - < 20
Sodium N-methyl-N- oleoyltaurine	137-20-2	Acute Tox.5; H303 Acute Tox.5; H313 Eye Irrit.2A; H319 Aquatic Acute2; H401	No data available	>= 1 - < 2,5
Disodium maleate	371-47-1	Acute Tox.5; H303 Skin Irrit.2; H315 Eye Irrit.2A; H319 Skin Sens.1; H317 STOT SE3; H335 (Respiratory system)	No data available	>= 0,3 - < 1
Quartz	14808-60-7	Carc.1A; H350	MPC-TWA: 1 mg/m <sup>3</sup> aerosols of pre- dominantly fibro- genic action, Class 3 - Moder- ately dangerous Data Source: RU OEL  MPC-STEL: 3 mg/m <sup>3</sup> aerosols of pre- dominantly fibro- genic action, Class 3 - Moder- ately dangerous	>= 0,3 - < 1

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			Data Source: RU OEL	
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For explanation of abbreviations see section 16.

### 4. FIRST AID MEASURES

- If inhaled : Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
- In case of skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
Suitable emergency safety shower facility should be available in work area.
- In case of eye contact : Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.  
Suitable emergency eye wash facility should be immediately available.
- If swallowed : No emergency medical treatment necessary.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : No specific antidote.  
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.  
Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

### 5. FIREFIGHTING MEASURES

#### Flammable properties

- Flash point : Method: closed cup  
Not applicable
- Ignition temperature : 238 °C
- Upper explosion limit / Upper flammability limit : Not applicable
- Lower explosion limit / Lower flammability limit : Not applicable
- Flammability (solid, gas) : No data available

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- Suitable extinguishing media : Water spray  
Alcohol-resistant foam
- Unsuitable extinguishing media : None known.
- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.  
Combustion products may include and are not limited to:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.  
Avoid breathing dust.  
Use personal protective equipment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.  
Prevent from entering into soil, ditches, sewers, undewater. See Section 12, Ecological Information.
- Methods and materials for containment and cleaning up : Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.  
Pick up and arrange disposal without creating dust.  
Recovered material should be stored in a vented container.  
The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

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pressurization of the container.  
 Keep in suitable, closed containers for disposal.  
 Sweep up or vacuum up spillage and collect in suitable container for disposal.  
 See Section 13, Disposal Considerations, for additional information.

**7. HANDLING AND STORAGE**

- Advice on safe handling : Do not breathe vapours/dust.  
 Do not smoke.  
 Handle in accordance with good industrial hygiene and safety practice.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Do not get in eyes.  
 Avoid contact with skin and eyes.  
 Avoid prolonged or repeated contact with skin.  
 Take care to prevent spills, waste and minimize release to the environment.  
 Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Conditions for safe storage : Store in a closed container.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Keep in properly labelled containers.  
 Store in accordance with the particular national regulations.
- Materials to avoid : Do not store near acids.  
 Strong oxidizing agents
- Packaging material : Unsuitable material: None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Kaolin	1332-58-7	MPC-TWA (aerosol)	8 mg/m <sup>3</sup>	RU OEL
Further information: aerosols of predominantly fibrogenic action, Class 3 - Moderately dangerous				
		TWA (Respirable dust)	0,1 mg/m <sup>3</sup>	2004/37/EC
Sodium lignosulfonate	8061-51-6	MPC-STEL (aerosol)	2 mg/m <sup>3</sup>	RU OEL
Further information: Class 3 - Moderately dangerous				
citric acid	77-92-9	MPC-STEL (aerosol)	1 mg/m <sup>3</sup>	RU OEL
Further information: Class 3 - Moderately dangerous				
Quartz	14808-60-7	MPC-TWA (Aerosol - total mass)	1 mg/m <sup>3</sup>	RU OEL

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	Further information: aerosols of predominantly fibrogenic action, Class 3 - Moderately dangerous			
		MPC-STEL (Aerosol - total mass)	3 mg/m <sup>3</sup>	RU OEL
	Further information: aerosols of predominantly fibrogenic action, Class 3 - Moderately dangerous			
		TWA (Respirable dust)	0,1 mg/m <sup>3</sup>	2004/37/EC

**Engineering measures** : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.  
Local exhaust ventilation may be necessary for some operations.

**Personal protective equipment**

**Respiratory protection** : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved particulate respirator.

**Hand protection**

**Remarks** : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Eye protection** : Use chemical goggles.

**Skin and body protection** : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : Granules.

**Colour** : Tan

**Odour** : Mild

**Odour Threshold** : No data available

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pH : 4,5 (24,3 °C)  
Concentration: 1,0 %  
1% solution

Freezing point : Not applicable

Melting point/range : No data available.

Boiling point/boiling range : Not applicable

Flash point : Method: closed cup  
Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : No data available

Bulk density : 0,5108 g/mL (23,9 °C)  
Method: Loose Volumetric

Solubility(ies)  
Water solubility : No data available

Auto-ignition temperature : 238 °C

Viscosity  
Viscosity, dynamic : Not applicable

Explosive properties : No

Oxidizing properties : No significant increase (>5C) in temperature.  
Reference substance: Monoammonium phosphate

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### 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.  
Chemical stability : No decomposition if stored and applied as directed.  
Stable under normal conditions.



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Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong acids Strong bases
Hazardous decomposition products	:	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Nitrogen oxides (NO <sub>x</sub> ) Carbon oxides

**11. TOXICOLOGICAL INFORMATION**
**Acute toxicity**
**Product:**

Acute oral toxicity	:	LD50 (Rat, female): > 5.000 mg/kg Method: OECD Test Guideline 423 Symptoms: No deaths occurred at this concentration.
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5,68 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5.000 mg/kg Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration.

**Components:**
**Halauxifen-methyl:**

Acute oral toxicity	:	LD50 (Rat, female): > 5.000 mg/kg
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5.000 mg/kg

**florasulam (ISO):**

Acute oral toxicity	:	LD50 (Rat): > 6.000 mg/kg LD50 (Mouse): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5,0 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg

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Symptoms: No deaths occurred at this concentration.  
 Assessment: The substance or mixture has no acute dermal toxicity

**Cloquintocet:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
 Symptoms: No deaths occurred at this concentration.  
 Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 6,11 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Symptoms: No deaths occurred at this concentration.  
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

**Kaolin:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

**Sodium lignosulfonate:**

Acute oral toxicity : LD50 (Rat, male and female): > 10.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,48 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: The substance or mixture has no acute inhalation toxicity

**citric acid:**

Acute oral toxicity : LD50 (Mouse): 5.400 mg/kg  
 Assessment: The substance or mixture has no acute oral toxicity

LD50 (Rat): 3.000 - 12.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
 Symptoms: No deaths occurred at this concentration.  
 Assessment: The substance or mixture has no acute dermal toxicity

**Urea, polymer with formaldehyde:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
 Method: Estimated.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
 Method: Estimated.

**Sodium N-methyl-N-oleoyltaurine:**

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Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

**Disodium maleate:**

Acute oral toxicity : LD50 (Rat): 3.380 mg/kg

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**Components:****Kaolin:**

Species : Rabbit  
Result : No skin irritation

**citric acid:**

Result : No skin irritation

**Disodium maleate:**

Species : Rabbit  
Result : Skin irritation

**Quartz:**

Result : No skin irritation

**Serious eye damage/eye irritation****Product:**

Species : Rabbit  
Result : Mild eye irritation  
Method : OECD Test Guideline 405

**Components:****Kaolin:**

Species : Rabbit  
Result : No eye irritation

**Sodium lignosulfonate:**

Result : Eye irritation

**citric acid:**

Result : Eye irritation

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**Sodium N-methyl-N-oleoyltaurine:**

Species : Rabbit  
Result : Eye irritation

**Disodium maleate:**

Species : Rabbit  
Result : Eye irritation

**Quartz:**

Result : No eye irritation

**Respiratory or skin sensitisation****Product:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 429

**Components:****Halauxifen-methyl:**

Remarks : Did not demonstrate the potential for contact allergy in mice.

Remarks : For respiratory sensitization:  
No relevant data found.

**florasulam (ISO):**

Remarks : Did not cause allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:  
No relevant data found.

**Cloquintocet:**

Assessment : Does not cause skin sensitisation.  
Remarks : Did not demonstrate the potential for contact allergy in mice.

Remarks : For respiratory sensitization:  
No relevant data found.

**Sodium lignosulfonate:**

Remarks : Did not cause allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:  
No relevant data found.

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**Sodium N-methyl-N-oleoyltaurine:**

Species : Guinea pig  
 Assessment : Does not cause skin sensitisation.

**Disodium maleate:**

Test Type : Maximisation Test  
 Species : Guinea pig  
 Assessment : The product is a skin sensitiser, sub-category 1B.  
 Method : OECD Test Guideline 406  
 : Local lymph node assay (LLNA)  
 : Mouse  
 : The product is a skin sensitiser, sub-category 1B.  
 : OECD Test Guideline 429

**Germ cell mutagenicity**
**Components:**
**Halauxifen-methyl:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

**florasulam (ISO):**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

**Cloquintocet:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

**Sodium lignosulfonate:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

**citric acid:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

**Sodium N-methyl-N-oleoyltaurine:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

**Quartz:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative in some cases and positive in other cases.

**Carcinogenicity**
**Product:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

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**Components:**
**Halauxifen-methyl:**

Carcinogenicity - Assessment : For similar active ingredient(s)., Halauxifen., Did not cause cancer in laboratory animals.

**florasulam (ISO):**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

**Cloquintocet:**

Carcinogenicity - Assessment : For similar active ingredient(s)., Cloquintocet-mexyl., Did not cause cancer in laboratory animals.

**Kaolin:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**citric acid:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

**Quartz:**

Carcinogenicity - Assessment : Human carcinogen.  
Has caused cancer in humans., Has caused cancer in laboratory animals.

**Reproductive toxicity**
**Components:**
**Halauxifen-methyl:**

Reproductive toxicity - Assessment : For similar active ingredient(s)., Halauxifen., In animal studies, did not interfere with reproduction.  
Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory animals.

**florasulam (ISO):**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction.  
Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

**Cloquintocet:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction.  
For similar active ingredient(s)., Cloquintocet-mexyl., Did not cause birth defects or any other fetal effects in laboratory animals.

**citric acid:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction.

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essment : Did not cause birth defects or any other fetal effects in laboratory animals.

### **Sodium N-methyl-N-oleoyltaurine:**

Reproductive toxicity - Assessment : Screening studies suggest that this material does not affect reproduction.

### **Quartz:**

Reproductive toxicity - Assessment : For similar material(s); Did not cause birth defects or any other fetal effects in laboratory animals.

### **STOT - single exposure**

#### **Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Components:**

#### **Halauxifen-methyl:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

#### **Cloquintocet:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Kaolin:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **citric acid:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

#### **Urea, polymer with formaldehyde:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Sodium N-methyl-N-oleoyltaurine:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Disodium maleate:**

Exposure routes : Inhalation  
 Target Organs : Respiratory system  
 Assessment : May cause respiratory irritation.

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**Quartz:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**STOT - repeated exposure****Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-RE toxicant.

**Components:****Quartz:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Repeated dose toxicity****Components:****Halauxifen-methyl:**

Remarks : In animals, effects have been reported on the following organs:  
Kidney.  
Liver.  
Thyroid.

**florasulam (ISO):**

Remarks : In animals, effects have been reported on the following organs:  
Kidney.

**Cloquintocet:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Kaolin:**

Remarks : Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.

**Sodium lignosulfonate:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**citric acid:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Sodium N-methyl-N-oleoyltaurine:**



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Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Quartz:**

Remarks : In humans, effects have been reported on the following organs:  
Kidney.  
Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.

**Aspiration toxicity****Product:**

Based on physical properties, not likely to be an aspiration hazard.

**Components:****Halauxifen-methyl:**

Based on physical properties, not likely to be an aspiration hazard.

**florasulam (ISO):**

Based on physical properties, not likely to be an aspiration hazard.

**Cloquintocet:**

Based on physical properties, not likely to be an aspiration hazard.

**Kaolin:**

Based on physical properties, not likely to be an aspiration hazard.

**Sodium lignosulfonate:**

Based on available information, aspiration hazard could not be determined.

**citric acid:**

Based on physical properties, not likely to be an aspiration hazard.

**Urea, polymer with formaldehyde:**

Based on physical properties, not likely to be an aspiration hazard.

**Sodium N-methyl-N-oleoyltaurine:**

Based on available information, aspiration hazard could not be determined.

**Disodium maleate:**

Based on physical properties, not likely to be an aspiration hazard.

**Quartz:**

Based on physical properties, not likely to be an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Product:**

Toxicity to fish	:	Remarks: For similar material(s): Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).  LC50 (Oncorhynchus mykiss (rainbow trout)): 26,7 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 72,4 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,272 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  ErC50 (Lemna gibba (gibbous duckweed)): 0,0087 mg/l Exposure time: 7 d Method: OECD Test Guideline 221  NOEC (Lemna gibba (gibbous duckweed)): 0,0026 mg/l Exposure time: 7 d Method: OECD Test Guideline 221  ErC50 (Myriophyllum spicatum): 0,0025 mg/l Exposure time: 14 d  NOEC (Myriophyllum spicatum): 0,00098 mg/l Exposure time: 14 d  EbC50 (Pseudokirchneriella subcapitata (green algae)): 0,0512 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  EyC50 (Pseudokirchneriella subcapitata (green algae)): 0,0505 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to soil dwelling organisms	:	LC50 (Eisenia fetida (earthworms)): > 1.000 mg/kg Exposure time: 14 d End point: mortality

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Toxicity to terrestrial organisms : oral LD50 (*Colinus virginianus* (Bobwhite quail)): > 2000 mg/kg bodyweight.  
End point: mortality

oral LD50 (*Apis mellifera* (bees)): > 212,5 micrograms/bee  
Exposure time: 48 h  
End point: mortality  
Method: OECD Test Guideline 213

contact LD50 (*Apis mellifera* (bees)): > 200 micrograms/bee  
Exposure time: 48 h  
End point: mortality  
Method: OECD Test Guideline 214

**Components:**
**Halauxifen-methyl:**

Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50 (*Rainbow trout* (*Oncorhynchus mykiss*)): 2,01 mg/l  
Exposure time: 96 h  
Test Type: static test

LC50 (*Pimephales promelas* (fathead minnow)): > 3,22 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 2,12 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 3,0 mg/l  
Exposure time: 96 h

ErC50 (*Myriophyllum spicatum*): 0,000393 mg/l  
End point: Growth rate inhibition  
Exposure time: 14 d

M-Factor (Acute aquatic toxicity) : 1.000

Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 0,259 mg/l  
End point: Other  
Test Type: flow-through test

NOEC (*Cyprinodon variegatus* (sheepshead minnow)): 0,00272 mg/l  
Exposure time: 36 d  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0,484 mg/l  
End point: number of offspring  
Exposure time: 21 d

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Test Type: semi-static test

- M-Factor (Chronic aquatic toxicity) : 1.000
- Toxicity to microorganisms : EC50 (activated sludge): > 981 mg/l  
Exposure time: 1 d
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1.000 mg/kg  
Exposure time: 14 d  
End point: mortality
- Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).
- dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5.620 ppm  
Exposure time: 5 d  
Method: Other guidelines
- dietary LC50 (Anas platyrhynchos (Mallard duck)): > 5.620 ppm  
Exposure time: 5 d  
Method: Other guidelines
- oral LD50 (Colinus virginianus (Bobwhite quail)): > 2250 mg/kg bodyweight.  
End point: mortality
- contact LD50 (Apis mellifera (bees)): > 98,1 µg/bee  
Exposure time: 48 h  
End point: mortality
- oral LD50 (Apis mellifera (bees)): > 108 µg/bee  
Exposure time: 48 h  
End point: mortality

**Ecotoxicology Assessment**

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**florasulam (ISO):**

- Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).
- LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203 or Equivalent
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 292 mg/l  
Exposure time: 48 h

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		Test Type: static test Method: OECD Test Guideline 202 or Equivalent
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,00894 mg/l End point: Growth rate inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 or Equivalent
		EC50 (Myriophyllum spicatum): > 0,305 mg/l End point: Growth inhibition Exposure time: 14 d
M-Factor (Acute aquatic toxicity)	:	100
Toxicity to fish (Chronic toxicity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 119 mg/l End point: mortality Exposure time: 28 d Test Type: flow-through test
		NOEC (Pimephales promelas (fathead minnow)): > 2,9 mg/l End point: Other Exposure time: 33 d Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 38,90 mg/l End point: growth Exposure time: 21 d Test Type: semi-static test
		MATC (Maximum Acceptable Toxicant Level) (Daphnia magna (Water flea)): 50,2 mg/l End point: growth Exposure time: 21 d Test Type: semi-static test
M-Factor (Chronic aquatic toxicity)	:	100
Toxicity to soil dwelling organisms	:	LC50 (Eisenia fetida (earthworms)): > 1.320 mg/kg Exposure time: 14 d
Toxicity to terrestrial organisms	:	Remarks: Material is slightly toxic to birds on an acute basis (LD50 between 501 and 2000 mg/kg)., Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).  oral LD50 (Coturnix japonica (Japanese quail)): 1047 mg/kg bodyweight.  dietary LC50 (Anas platyrhynchos (Mallard duck)): > 5.000 ppm Exposure time: 8 d  oral LD50 (Apis mellifera (bees)): > 100 micrograms/bee Exposure time: 48 h

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contact LD50 (*Apis mellifera* (bees)): > 100 micrograms/bee  
Exposure time: 48 h

**Cloquintocet:**

Toxicity to fish : Remarks: Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50 (Sheepshead minnow (*Cyprinodon variegatus*)): > 120 mg/l

Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Oyster shell* (*Crassostrea virginica*)): > 110 mg/l  
Exposure time: 96 h

LC50 (*Mysid shrimp* (*Mysidopsis bahia*)): > 120 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 66,5 mg/l  
Exposure time: 72 h  
Test Type: static test

ErC50 (*Skeletonema costatum* (marine diatom)): 12,5 mg/l  
Exposure time: 96 h

ErC50 (*Anabaena flos-aquae* (cyanobacterium)): 23,7 mg/l  
Exposure time: 96 h

Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 0,143 mg/l  
Exposure time: 33 d  
Test Type: flow-through test

Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).

oral LD50 (*Colinus virginianus* (Bobwhite quail)): > 2250 mg/kg bodyweight.

contact LD50 (*Apis mellifera* (bees)): > 200 µg/bee  
Exposure time: 48 h

**Sodium lignosulfonate:**

Toxicity to fish : Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50 (*Pimephales promelas* (fathead minnow)): 615 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (*Daphnia magna* (Water flea)): > 100 mg/l

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aquatic invertebrates                      Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202 or Equivalent  
 Remarks: For this family of materials:

**citric acid:**

Toxicity to fish                                      :    Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.516 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203 or Equivalent

LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other                      :    EC50 (Daphnia magna (Water flea)): > 1.535 mg/l  
 aquatic invertebrates                                      Exposure time: 24 h  
 Test Type: Static  
 Method: OECD Test Guideline 202 or Equivalent

**Urea, polymer with formaldehyde:**

Toxicity to fish                                      :    LC50 (Fish): > 1.000 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other                      :    EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
 aquatic invertebrates                                      Exposure time: 48 h

**Sodium N-methyl-N-oleoyltaurine:**

Toxicity to fish                                      :    LC50 (Danio rerio (zebra fish)): 1,32 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other                      :    EC50 (Daphnia magna (Water flea)): 5,76 mg/l  
 aquatic invertebrates                                      Exposure time: 48 h

Toxicity to algae/aquatic                              :    EC50 (Desmodesmus subspicatus (green algae)): 197 mg/l  
 plants    Exposure time: 72 h

Toxicity to daphnia and other                      :    NOEC (Daphnia magna (Water flea)): 2 mg/l  
 aquatic invertebrates (Chronic toxicity)                      Exposure time: 21 d

**Quartz:**

Toxicity to fish                                      :    Remarks: Not expected to be acutely toxic to aquatic organisms.

**Ecotoxicology Assessment**

Acute aquatic toxicity                              :    This product has no known ecotoxicological effects.

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**Persistence and degradability****Components:****Halauxifen-methyl:**

Biodegradability : Result: Not biodegradable  
Remarks: For similar active ingredient(s).  
Halauxifen.  
Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Biodegradation: 7,7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 310 or Equivalent  
Remarks: 10-day Window: Not applicable

**florasulam (ISO):**

Biodegradability : Result: Not biodegradable  
Remarks: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Biodegradation: 2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B or Equivalent  
Remarks: 10-day Window: Fail

Biochemical Oxygen Demand (BOD) : 0,012 kg/kg  
Incubation time: 5 d

ThOD : 0,85 kg/kg

Stability in water : Degradation half life: > 30 d

Photodegradation : Rate constant: 7,04E-11 cm<sup>3</sup>/s  
Method: Estimated.

**Sodium lignosulfonate:**

Biodegradability : Remarks: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Biodegradation: < 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E  
Remarks: 10-day Window: Fail

Photodegradation : Rate constant: 1,089E-10 cm<sup>3</sup>/s  
Method: Estimated.

**citric acid:**



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Biodegradability : Remarks: Material is expected to be readily biodegradable. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

aerobic

Result: Readily biodegradable.

Biodegradation: 97 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Pass

aerobic

Biodegradation: 98 %

Exposure time: 7 d

Method: OECD Test Guideline 302B or Equivalent

Remarks: 10-day Window: Not applicable

**Sodium N-methyl-N-oleoyltaurine:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B or Equivalent  
Remarks: 10-day Window: Pass  
Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

**Quartz:**

Biodegradability : Remarks: Biodegradation is not applicable.

**Bioaccumulative potential**
**Components:**
**Halauxifen-methyl:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 233  
Exposure time: 42 d  
Temperature: 21,8 °C  
Concentration: 0,00194 mg/l

Partition coefficient: n-octanol/water : log Pow: 3,76  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**florasulam (ISO):**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 0,8  
Exposure time: 28 d  
Temperature: 13 °C  
Method: Measured

Partition coefficient: n- :

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octanol/water

log Pow: -1,22  
pH: 7,0  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Cloquintocet:**

Partition coefficient: n-octanol/water : log Pow: 2,12  
Method: Estimated.  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Sodium lignosulfonate:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 3,2

Partition coefficient: n-octanol/water :

log Pow: -3,45  
Method: Estimated.  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**citric acid:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 0,01  
Method: Measured

Partition coefficient: n-octanol/water :

log Pow: -1,72 (20 °C)  
Method: Measured  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Urea, polymer with formaldehyde:**

Partition coefficient: n-octanol/water : Remarks: No data available for this product.

**Sodium N-methyl-N-oleoyltaurine:**

Partition coefficient: n-octanol/water : Pow: 1,36 (20 °C)  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Disodium maleate:**

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

**Quartz:**

Partition coefficient: n-octanol/water : Remarks: Partitioning from water to n-octanol is not applicable.

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**Mobility in soil**
**Components:**
**Halauxifen-methyl:**

Distribution among environmental compartments : Koc: 5684  
 Remarks: Expected to be relatively immobile in soil (Koc > 5000).

**florasulam (ISO):**

Distribution among environmental compartments : Koc: 4 - 54  
 Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Stability in soil : Dissipation time: 0,7 - 4,5 d

**Cloquintocet:**

Distribution among environmental compartments : Koc: 206  
 Method: Estimated.  
 Remarks: Potential for mobility in soil is medium (Koc between 150 and 500).

**Sodium lignosulfonate:**

Distribution among environmental compartments : Koc: > 99999  
 Method: Estimated.  
 Remarks: Expected to be relatively immobile in soil (Koc > 5000).

**citric acid:**

Distribution among environmental compartments : Remarks: No relevant data found.

**Quartz:**

Distribution among environmental compartments : Remarks: No relevant data found.

**Other adverse effects**
**Components:**
**Halauxifen-methyl:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**florasulam (ISO):**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Cloquintocet:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Kaolin:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Sodium lignosulfonate:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**citric acid:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Urea, polymer with formaldehyde:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Sodium N-methyl-N-oleoyltaurine:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Disodium maleate:**

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Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Quartz:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

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**13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

Waste from residues : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.  
If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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**14. TRANSPORT INFORMATION**
**ADR**

UN number : UN 3077  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (Halauxifen-methyl, Florasulam)  
 Class : 9  
 Packing group : III  
 Labels : 9  
 Hazard Identification Number : 90  
 Tunnel restriction code : (-)

**UNRTDG**

UN number : UN 3077  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (Halauxifen-methyl, Florasulam)  
 Class : 9  
 Packing group : III  
 Labels : 9

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**IATA-DGR**

UN/ID No.	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Halauxifen-methyl, Florasulam)
Class	: 9
Packing group	: III
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 956
Packing instruction (passenger aircraft)	: 956

**IMDG-Code**

UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Halauxifen-methyl, Florasulam)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes
Remarks	: Stowage category A

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Further information**

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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**15. REGULATORY INFORMATION**

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

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**16. OTHER INFORMATION**
**Full text of H-Statements**

H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**Full text of other abbreviations**

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Carc.	: Carcinogenicity
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
RU OEL	: SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table 2.17 Maximum permissible concentrations (MPC) in the air of the working area
2004/37/EC / TWA	: Long term exposure limit
RU OEL / MPC-STEL	: Maximum Permissible Concentration - Short Term Exposure
RU OEL / MPC-TWA	: Maximum Permissible Concentration - Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature;

# SAFETY DATA SHEET



## QUELEX™ 200WG Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
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SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Product code: GF-3313

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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