

# SAFETY DATA SHEET

DOW AGROSCIENCES LIMITED

Safety Data Sheet according to Reg. (EU) No 453/2010

**Product name:** AVOCET Herbicide

**Revision Date:** 09.10.2014

**Version:** 2.0

**Print Date:** 09.10.2014

DOW AGROSCIENCES LIMITED encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

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

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### 1.1 Product identifiers

**Product name:** AVOCET Herbicide

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

**Identified uses:** Plant Protection Product

### 1.3 Details of the supplier of the safety data sheet

#### COMPANY IDENTIFICATION

DOW AGROSCIENCES LIMITED

LATCHMORE COURT

BRAND STREET

HITCHIN

England

SG5 1NH

UNITED KINGDOM

**Customer Information Number:**

[SDSQuestion@dow.com](mailto:SDSQuestion@dow.com)

### 1.4 EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:** 0031 115 694 982

**Local Emergency Contact:** 00 31 115 69 4982

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## SECTION 2. HAZARDS IDENTIFICATION

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### 2.1 Classification of the substance or mixture

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

Acute aquatic toxicity - Category 1 - H400

Chronic aquatic toxicity - Category 1 - H410

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

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC:

Dangerous for the environment - R50/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms

Signal word: **WARNING****Hazard statements**

H410 Very toxic to aquatic life with long lasting effects.

**Supplemental Hazard Statements**

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

**Precautionary statements**

P391 Collect spillage.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

**Supplemental information**

Contains PyroxsulamCloquintocet-mexyl May produce an allergic reaction.

**2.3 Other hazards**

no data available

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixture**

This product is a mixture.

CASRN / EC-No. / Index-No.	REACH Registration Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
CASRN 422556-08-9 EC-No. Not available Index-No. -	-	7.4%	Pyroxsulam	Skin Sens. - 1B - H317 Aquatic Acute - 1 - H400 Aquatic Chronic - 1 - H410

<b>CASRN</b> 99607-70-2 <b>EC-No.</b> Not available <b>Index-No.</b> -	01-2119401416-51 01-2119403579-35	7.1%	Cloquintocet-mexyl	Skin Sens. - 1 - H317 Aquatic Acute - 1 - H400 Aquatic Chronic - 1 - H410
<b>CASRN</b> 1332-58-7 <b>EC-No.</b> 310-194-1 <b>Index-No.</b> -	-	> 30.0 - < 40.0 %	Kaolin	Not classified
<b>CASRN</b> 8061-51-6 <b>EC-No.</b> Polymer <b>Index-No.</b> -	-	> 10.0 - < 20.0 %	Sodium lignosulfonate	Not classified
<b>CASRN</b> 77-92-9 <b>EC-No.</b> 201-069-1 <b>Index-No.</b> -	01-2119457026-42	< 10.0 %	Citric acid	Eye Irrit. - 2 - H319
<b>CASRN</b> 13463-67-7 <b>EC-No.</b> 236-675-5 <b>Index-No.</b> -	-	< 1.0 %	Titanium dioxide	Not classified
<b>CASRN</b> 14808-60-7 <b>EC-No.</b> 238-878-4 <b>Index-No.</b> -	-	< 1.0 %	Silica, crystalline (quartz)	Not classified

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

<b>CASRN / EC-No. / Index-No.</b>	<b>Concentration</b>	<b>Component</b>	<b>Classification: 67/548/EEC</b>
<b>CASRN</b> 422556-08-9 <b>EC-No.</b> Not available <b>Index-No.</b> -	7.4%	Pyroxsulam	R43 N - R50 - R53
<b>CASRN</b> 99607-70-2 <b>EC-No.</b> Not available <b>Index-No.</b> -	7.1%	Cloquintocet-mexyl	R43 N - R50 - R53
<b>CASRN</b> 1332-58-7 <b>EC-No.</b> 310-194-1 <b>Index-No.</b> -	> 30.0 - < 40.0 %	Kaolin	Not classified
<b>CASRN</b> 8061-51-6 <b>EC-No.</b> Polymer <b>Index-No.</b> -	> 10.0 - < 20.0 %	Sodium lignosulfonate	Not classified
<b>CASRN</b> 77-92-9 <b>EC-No.</b> 201-069-1 <b>Index-No.</b> -	< 10.0 %	Citric acid	Xi - R36
<b>CASRN</b> 13463-67-7 <b>EC-No.</b> 236-675-5 <b>Index-No.</b> -	< 1.0 %	Titanium dioxide	Not classified
<b>CASRN</b> 14808-60-7 <b>EC-No.</b> 238-878-4 <b>Index-No.</b> -	< 1.0 %	Silica, crystalline (quartz)	Not classified

For the full text of the R-phrases mentioned in this Section, see Section 16.

## SECTION 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

**General advice:** If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** 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.

**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.

**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.

**Ingestion:** No emergency medical treatment necessary.

**4.2 Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

**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.

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## SECTION 5. FIREFIGHTING MEASURES

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### 5.1 Extinguishing media

**Suitable extinguishing media:** Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

**Unsuitable extinguishing media:** no data available

### 5.2 Special hazards arising from the substance or mixture

**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: Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. Dense smoke is produced when product burns.

### 5.3 Advice for firefighters

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Consider feasibility of a controlled burn to minimize environment damage. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Soak thoroughly with water

to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

**Special protective equipment for firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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**6.1 Personal precautions, protective equipment and emergency procedures:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**6.2 Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**6.3 Methods and materials for containment and cleaning up:** Contain spilled material if possible. Small spills: Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

**6.4 Reference to other sections:** References to other sections, if applicable, have been provided in the previous sub-sections.

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## SECTION 7. HANDLING AND STORAGE

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**7.1 Precautions for safe handling:** Keep out of reach of children. Do not swallow. Avoid breathing dust or mist. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling. Good housekeeping and controlling of dusts are necessary for safe handling of product.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

**7.3 Specific end use(s):** Refer to product label.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**8.1 Control parameters**

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Pyroxsulam	Dow IHG	TWA	5 mg/m <sup>3</sup>
	Dow IHG	TWA	Skin Sensitizer
	GB EH40		
Kaolin	ACGIH	TWA Respirable fraction	2 mg/m <sup>3</sup>
	GB EH40	TWA Respirable dust	2 mg/m <sup>3</sup>
Silica, crystalline (quartz)	GB EH40	TWA Respirable dust	0.1 mg/m <sup>3</sup>

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

**8.2 Exposure controls**

**Engineering controls:** Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

**Individual protection measures**

**Eye/face protection:** Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.

**Skin protection**

**Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove is recommended to prevent contact with the solid material. 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.

**Other protection:** Wear clean, body-covering clothing.

**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, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

**Environmental exposure controls**

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 Information on basic physical and chemical properties****Appearance**

Physical state	Solid.
Color	Tan
Odor	Musty
Odor Threshold	No test data available
pH	5.51 1% CIPAC MT 75 (1% dispersion)
Melting point/range	No test data available
Freezing point	Not applicable
Boiling point (760 mmHg)	Not applicable
Flash point	<b>closed cup</b> not flammable
Evaporation Rate (Butyl Acetate = 1)	Not applicable
Flammability (solid, gas)	No
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	Not applicable
Relative Vapor Density (air = 1)	Not applicable
Relative Density (water = 1)	Not applicable
Water solubility	Dispersible
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	none below 400 degC
Decomposition temperature	No test data available
Dynamic Viscosity	Not applicable
Kinematic Viscosity	Not applicable
Explosive properties	No
Oxidizing properties	No

**9.2 Other information**

Bulk density	0.5 g/cm <sup>3</sup> <i>Loose Volumetric</i>
Molecular weight	no data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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**SECTION 10. STABILITY AND REACTIVITY**

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**10.1 Reactivity:** No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability:** Thermally stable at typical use temperatures.



**10.3 Possibility of hazardous reactions:** Polymerization will not occur.

**10.4 Conditions to avoid:** Active ingredient decomposes at elevated temperatures.

**10.5 Incompatible materials:** None known.

**10.6 Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials. Toxic gases are released during decomposition.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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*Toxicological information on this product or its components appear in this section when such data is available.*

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product:

LD50, rat, female, > 5,000 mg/kg

##### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product:

LD50, rat, male and female, > 5,000 mg/kg

##### Acute inhalation toxicity

No adverse effects are anticipated from single exposure to dust. Based on the available data, respiratory irritation was not observed.

As product:

LC50, rat, male and female, 4 Hour, Dust, > 5.08 mg/l No deaths occurred at this concentration.

#### Skin corrosion/irritation

Brief contact is essentially nonirritating to skin.

#### Serious eye damage/eye irritation

Solid or dust may cause irritation or corneal injury due to mechanical action.

May cause slight eye irritation.

Corneal injury is unlikely.

#### Sensitization

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

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

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

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

For the active ingredient(s):

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

Liver.

Kidney.

Thymus.

Thyroid.

Bladder.

Bone marrow.

**Carcinogenicity**

For the active ingredient(s): There was equivocal evidence of carcinogenic activity in long-term bioassays. These effects are not believed to be relevant to humans.

**Teratogenicity**

For the active ingredient(s): Did not cause birth defects or any other fetal effects in laboratory animals.

**Reproductive toxicity**

In animal studies, active ingredient did not interfere with reproduction. In animal studies, did not interfere with reproduction.

**Mutagenicity**

For the active ingredient(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Aspiration Hazard**

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

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**SECTION 12. ECOLOGICAL INFORMATION**

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*Ecotoxicological information on this product or its components appear in this section when such data is available.*

**12.1 Toxicity**

**Acute toxicity to fish**

Material is very toxic to aquatic organisms (LC50/EC50/IC50 below 1 mg/L in the most sensitive species).

LC50, *Oncorhynchus mykiss* (rainbow trout), semi-static test, 96 Hour, 75 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

EC50, *Daphnia magna* (Water flea), static test, 48 Hour, > 100 mg/l, OECD Test Guideline 202 or Equivalent

**Acute toxicity to algae/aquatic plants**

ErC50, *Pseudokirchneriella subcapitata* (green algae), 72 Hour, Growth rate inhibition, 37 mg/l, OECD Test Guideline 201 or Equivalent

ErC50, Lemna minor (duckweed), 7 d, Growth rate inhibition, 0.034 mg/l, OECD 221.

#### **Toxicity to Above Ground Organisms**

contact LD50, Apis mellifera (bees), 48 Hour, 104micrograms/bee

dietary LC50, Apis mellifera (bees), 48 Hour, 104micrograms/bee

#### **Toxicity to soil-dwelling organisms**

LC50, Eisenia fetida (earthworms), 14 d, survival, > 1,000 mg/kg

### **12.2 Persistence and degradability**

#### **Pyroxsulam**

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Fail

**Biodegradation:** 20 - 30 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301B or Equivalent

#### **Cloquintocet-mexyl**

**Biodegradability:** No relevant data found.

#### **Kaolin**

**Biodegradability:** Biodegradation is not applicable.

#### **Sodium lignosulfonate**

**Biodegradability:** No relevant information found.

#### **Photodegradation**

**Atmospheric half-life:** 0.098 d

**Method:** Estimated.

#### **Citric acid**

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

10-day Window: Pass

**Biodegradation:** 97 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301B or Equivalent

10-day Window: Not applicable

**Biodegradation:** 98 %

**Exposure time:** 7 d

**Method:** OECD Test Guideline 302B or Equivalent

#### **Titanium dioxide**

**Biodegradability:** Biodegradation is not applicable.

#### **Silica, crystalline (quartz)**

**Biodegradability:** Biodegradation is not applicable.

### **12.3 Bioaccumulative potential**

**Pyroxsulam**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** -1.01 Measured

**Cloquintocet-mexyl**

**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Partition coefficient: n-octanol/water(log Pow):** 5.3 Estimated.

**Bioconcentration factor (BCF):** 122 - 621 Fish.

**Kaolin**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

**Sodium lignosulfonate**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** -3.45 Estimated.

**Bioconcentration factor (BCF):** 3.2 Fish.

**Citric acid**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** -1.72 at 20 °C Measured

**Bioconcentration factor (BCF):** 0.01 Fish. Measured

**Titanium dioxide**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

**Silica, crystalline (quartz)**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

**12.4 Mobility in soil**

**Pyroxsulam**

Potential for mobility in soil is very high (Koc between 0 and 50).

**Partition coefficient(Koc):** <= 42 Estimated.

**Cloquintocet-mexyl**

Expected to be relatively immobile in soil (Koc > 5000).

**Partition coefficient(Koc):** 38070 Estimated.

**Kaolin**

No relevant data found.

**Sodium lignosulfonate**

Expected to be relatively immobile in soil (Koc > 5000).

**Partition coefficient(Koc):** > 99999 Estimated.

**Citric acid**

No relevant data found.

**Titanium dioxide**

No data available.

**Silica, crystalline (quartz)**

No relevant data found.

**12.5 Results of PBT and vPvB assessment**

**Pyroxsulam**

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).

**Cloquintocet-mexyl**

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).

**Kaolin**

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).

**Sodium lignosulfonate**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**Citric acid**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**Titanium dioxide**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**Silica, crystalline (quartz)**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**12.6 Other adverse effects**

**Pyroxsulam**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

**Cloquintocet-mexyl**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

**Kaolin**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

**Sodium lignosulfonate**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

**Citric acid**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

**Titanium dioxide**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

**Silica, crystalline (quartz)**

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

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.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

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**SECTION 14. TRANSPORT INFORMATION**

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**Classification for ROAD and Rail transport (ADR/RID):**

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(PYROXSULAM, CLOQUINTOCET-MEXYL)
14.3 Class	9
14.4 Packing group	III
14.5 Environmental hazards	PYROXSULAM, CLOQUINTOCET-MEXYL
14.6 Special precautions for user	Hazard identification No: 90

**Classification for SEA transport (IMO-IMDG):**

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(PYROXSULAM, CLOQUINTOCET-MEXYL)
14.3 Class	9
14.4 Packing group	III
14.5 Environmental hazards	PYROXSULAM, CLOQUINTOCET-MEXYL
14.6 Special precautions for user	EmS: F-A, S-F
14.7 Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC	Consult IMO regulations before transporting ocean bulk

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**Code****Classification for AIR transport (IATA/ICAO):**

<b>14.1 UN number</b>	UN 3077
<b>14.2 Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.(PYROXSULAM, CLOQUINTOCET-MEXYL)
<b>14.3 Class</b>	9
<b>14.4 Packing group</b>	III
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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**SECTION 15. REGULATORY INFORMATION**

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

Registration Number: MAPP 14829

This product contains only components that have been either pre-registered, registered, are exempt from registration or are regarded as registered according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

**15.2 Chemical Safety Assessment**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

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**SECTION 16. OTHER INFORMATION**

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**Full text of H-Statements referred to under sections 2 and 3.**

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Full text of R-phrases referred to under sections 2 and 3**

R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008**

Aquatic Acute - 1 - H400 - On basis of test data.

Aquatic Chronic - 1 - H410 - Calculation method

**Revision**

Identification Number: 101213062 / A293 / Issue Date: 09.10.2014 / Version: 2.0

DAS Code: GF-1274

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
Dow IHG	Dow Industrial Hygiene Guideline
GB EH40	UK. EH40 WEL - Workplace Exposure Limits
TWA	8-hour, time-weighted average

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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