

## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

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 South Africa and may not meet the regulatory requirements in other countries.

---

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

#### 1.1 Product identifier

Trade name : PALLAS™ 45 OD

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

Use of the Sub-stance/Mixture : Plant Protection Product, Herbicide

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

##### COMPANY IDENTIFICATION

##### Manufacturer/importer

Corteva Agriscience RSA Proprietary Limited  
Block A, 2nd Floor, Lakefield Office Park, 272 West Avenue  
Centurion, Gauteng, 1063  
SOUTH AFRICA

**Customer Information** : +27 (0) 12 683 5700

##### Number

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

#### 1.4 Emergency telephone number

24-Hour Local Emergency Contact: +27 82 895 0621

24-Hour Emergency Contact: +32 3 575 55 55

---

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitisation, Sub-category 1B

H317: May cause an allergic skin reaction.

Short-term (acute) aquatic hazard, Category 1

H400: Very toxic to aquatic life.


Long-term (chronic) aquatic hazard, Category 1

H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

## PALLAS™ 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

- Hazard pictograms : 
- Signal word : Warning
- Hazard statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
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 : **Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
**Disposal:**  
P501 Dispose of contents/container in accordance with applicable regulations.

Hazardous components which must be listed on the label:

Cloquintocet-mexyl  
pyroxsulam (ISO)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
pyroxsulam (ISO)	422556-08-9	Skin Sens. 1; H317	4,306

# SAFETY DATA SHEET



## PALLAS™ 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

	613-327-00-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not Assigned  01-2119451097-39, 01-2119451097-39-0008, 01-2119451097-39-0009, 01-2119451097-39-0010	Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 70 - < 80
Cloquintocet-mexyl	99607-70-2  01-2119381871-32-0002, 01-2119381871-32-0003, 01-2119403579-35-0000	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 3 - < 10
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	68953-96-8 273-234-6 01-2119964467-24	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 3 - < 10
Hydrocarbons, C10, aromatics, <1% naphthalene	1189173-42-9  01-2119463583-34-0008, 01-2119463583-34-0009, 01-2119463583-34-0010	STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 3

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical re-

# SAFETY DATA SHEET



## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

- stant gloves, splash protection).  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- 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. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.  
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 available in work area.
- If swallowed : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.  
Never give anything by mouth to an unconscious person.

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

None known.

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

- Treatment : If burn is present, treat as any thermal burn, after decontamination.  
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.  
Skin contact may aggravate preexisting dermatitis.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam

## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

Unsuitable extinguishing media : None known.

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

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 : Nitrogen oxides (NOx)  
Carbon oxides

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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.  
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.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**6.2 Environmental precautions**

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.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
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, underwater.  
See Section 12, Ecological Information.

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

Methods for cleaning up : Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and dis-

## PALLAS™ 45 OD

Version 1.0	Revision Date: 31.05.2023	SDS Number: 800080004700	Date of last issue: - Date of first issue: 31.05.2023
----------------	------------------------------	-----------------------------	--

posal of this material, as well as those materials and items employed in.  
 For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped,  
 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-pressurization of the container.  
 Keep in suitable, closed containers for disposal.  
 Wipe up with absorbent material (e.g. cloth, fleece).  
 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
 See Section 13, Disposal Considerations, for additional information.

**6.4 Reference to other sections**

See sections: 7, 8, 11, 12 and 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Handle in accordance with good industrial hygiene and safety practice.  
 Avoid exposure - obtain special instructions before use.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Do not get on skin or clothing.  
 Avoid inhalation of vapour or mist.  
 Do not swallow.  
 Do not get in eyes.  
 Avoid contact with skin and eyes.  
 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.

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

Requirements for storage areas and containers : 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.

Advice on common storage : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

**7.3 Specific end use(s)**

Specific use(s) : Plant protection products subject to Regulation (EC) No 1107/2009.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****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**

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

Hand protection

Remarks : Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0.35 mm. Other glove materials with a thickness of less than 0.35 mm may offer sufficient protection when only brief contact is expected. 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, physi-

## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

- cal requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
- 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.
- 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, if discomfort is experienced, use an approved air-purifying respirator.
- 

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Appearance : Liquid.
- Colour : Green to brown
- Odour : Sweet
- Odour Threshold : No test data available
- pH : 5,9 (21,4 °C)  
Method: CIPAC MT 75.3  
(neat)
- Melting point/range : Not applicable
- Flash point : > 100 °C  
Method: CIPAC MT 12.3
- Evaporation rate : No data available
- Flammability (solid, gas) : Not applicable to liquids
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapour pressure : No data available
- Relative vapour density : No data available
- Relative density : No data available
- Density : 1,045 g/mL
- Solubility(ies)



**PALLAS<sup>™</sup> 45 OD**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

Water solubility	:	Dispersible
Auto-ignition temperature	:	none below 400 degC
Viscosity	:	
Viscosity, dynamic	:	66 mPa.s (20 °C) Method: OECD 114 GLP: yes
Viscosity, kinematic	:	No data available
Explosive properties	:	No Method: EEC A14 GLP: yes
Oxidizing properties	:	No significant increase (>5C) in temperature.  Reference substance: Monoammonium phosphateGLP: yes

**9.2 Other information**

Surface tension	:	42,8 mN/m, 25 °C, EC Method A5, GLP: yes
-----------------	---	--

---

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Not classified as a reactivity hazard.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.  
Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
---------------------	---	--

**10.4 Conditions to avoid**

Conditions to avoid	:	None known.
---------------------	---	-------------

**10.5 Incompatible materials**

Materials to avoid	:	Strong acids Strong bases
--------------------	---	------------------------------

**10.6 Hazardous decomposition products**

Carbon oxides

PALLAS<sup>™</sup> 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Product:**

- Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
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): > 1,1 mg/l  
Exposure time: 4 h  
Test atmosphere: 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  
Method: OECD Test Guideline 402  
Symptoms: No deaths occurred at this concentration.

**Components:****pyroxsulam (ISO):**

- Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat): > 5,12 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  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Remarks: For similar material(s):
- Acute inhalation toxicity : LD50 (Rat): > 4,778 mg/l  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

PALLAS<sup>™</sup> 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

---

Remarks: For similar material(s):

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: For similar material(s):

**Cloquintocet-mexyl:**

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): > 5,42 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

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

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD 401 or equivalent  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: For similar material(s):

Acute dermal toxicity : LD50 (Rat, male and female): > 1.000 - < 1.600 mg/kg  
Method: OECD 402 or equivalent  
Remarks: For similar material(s):

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Remarks: For similar material(s):

Acute inhalation toxicity : LC50 (Rat): > 4,688 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: For similar material(s):  
Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: For similar material(s):

PALLAS<sup>™</sup> 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

---

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

Species : Rabbit  
Result : Skin irritation

**Components:****Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Result : Skin irritation

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

Species : Rabbit  
Result : Eye irritation

**Components:****pyroxsulam (ISO):**

Species : Rabbit  
Result : No eye irritation

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Result : Corrosive

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

Test Type : Local lymph node assay  
Species : Mouse  
Assessment : The product is a skin sensitiser, sub-category 1B.  
Method : OECD Test Guideline 429

**Components:****pyroxsulam (ISO):**

Species : Guinea pig  
Assessment : The product is a skin sensitiser, sub-category 1B.

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

Remarks : For similar material(s):  
Did not cause allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:  
No relevant data found.

**Cloquintocet-mexyl:**

## PALLAS™ 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

---

Species : Guinea pig  
Assessment : May cause sensitisation by skin contact.

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Remarks : For skin sensitization:  
For similar material(s):  
Did not cause allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:  
No relevant data found.

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

Remarks : For similar material(s):  
Did not cause allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:  
No relevant data found.

**Germ cell mutagenicity****Components:****pyroxsulam (ISO):**

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

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

Germ cell mutagenicity- Assessment : For similar material(s);, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

**Cloquintocet-mexyl:**

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

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Germ cell mutagenicity- Assessment : For similar material(s);, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

Germ cell mutagenicity- Assessment : For similar material(s);, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

PALLAS<sup>™</sup> 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

---

**Carcinogenicity****Components:****pyroxsulam (ISO):**

Carcinogenicity - Assessment : There was equivocal evidence of carcinogenic activity in long-term bioassays. These effects are not believed to be relevant to humans.

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

Carcinogenicity - Assessment : Contains naphthalene which has caused cancer in some laboratory animals., However, the relevance of this to humans is unknown.

**Cloquintocet-mexyl:**

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

**Reproductive toxicity****Components:****pyroxsulam (ISO):**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals.

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

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

**Cloquintocet-mexyl:**

Reproductive toxicity - Assessment : Did not cause birth defects or any other fetal effects in laboratory animals.

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

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

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

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

PALLAS<sup>™</sup> 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

---

an STOT-SE toxicant.

**Components:****Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

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

**Cloquintocet-mexyl:**

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

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

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

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

Exposure routes : Inhalation  
Assessment : May cause drowsiness or dizziness.

**Repeated dose toxicity****Components:****pyroxsulam (ISO):**

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

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

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

**Cloquintocet-mexyl:**

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

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Remarks : For similar material(s):  
In animals, effects have been reported on the following organs:  
Kidney.

**PALLAS™ 45 OD**

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

---

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

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

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

No aspiration toxicity classification

**Components:****pyroxsulam (ISO):**

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

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

May be fatal if swallowed and enters airways.

**Cloquintocet-mexyl:**

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

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

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

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

May be fatal if swallowed and enters airways.

---

**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,92 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,4 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,3 mg/l  
End point: Growth rate inhibition  
Exposure time: 72 h  
Method: OECD Test Guideline 201 or Equivalent

ErC50 (Lemna minor (duckweed)): 0,069 mg/l



## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

End point: Growth rate inhibition  
 Exposure time: 7 d  
 Test Type: semi-static test  
 Method: OECD Test Guideline 201 or Equivalent

Toxicity to soil dwelling organisms : LC50: 243,8 mg/kg  
 Exposure time: 14 d  
 Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : oral LD50: > 2250 mg/kg bodyweight.  
 Species: Colinus virginianus (Bobwhite quail)

dietary LC50: > 5620 mg/kg diet.  
 Species: Colinus virginianus (Bobwhite quail)

oral LD50: 392 micrograms/bee  
 Exposure time: 48 h  
 Species: Apis mellifera (bees)

contact LD50: 320 micrograms/bee  
 Exposure time: 48 h  
 Species: Apis mellifera (bees)

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

**Components:****pyroxsulam (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87,0 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)): > 100 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants : ErC50 (Lemna minor (duckweed)): 0,00257 mg/l  
 End point: Biomass  
 Exposure time: 72 h  
 Method: OECD 221.

M-Factor (Acute aquatic toxicity) : 100

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
 Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 3,2 - 10,1 mg/l  
 End point: survival  
 Exposure time: 40 d

## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10,4 mg/l  
End point: survival  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: static test

M-Factor (Chronic aquatic toxicity) : 100  
Toxicity to soil dwelling organisms : LC50: > 10.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LC50: > 5000 mg/kg diet.  
Exposure time: 8 d  
Species: Colinus virginianus (Bobwhite quail)

LD50: > 2000 mg/kg bodyweight.  
Species: Colinus virginianus (Bobwhite quail)

oral LD50: > 107,4 micrograms/bee  
Exposure time: 48 h  
Species: Apis mellifera (bees)

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

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

Toxicity to fish : Remarks: For similar material(s):  
Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species).

EC50 (Oncorhynchus mykiss (rainbow trout)): 3,6 mg/l  
Exposure time: 96 h  
Remarks: For similar material(s):

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,1 mg/l  
Exposure time: 48 h  
Remarks: For similar material(s):

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 7,9 mg/l  
Exposure time: 72 h  
Remarks: For similar material(s):

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Cloquintocet-mexyl:**

## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,97 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test  
 Method: Method Not Specified.  
 Remarks: As the ester active substance.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,82 mg/l  
 Exposure time: 48 h  
 Test Type: flow-through test  
 Method: Method Not Specified.

Toxicity to algae/aquatic plants : EbC50 (alga Scenedesmus sp.): 0,63 mg/l  
 End point: Biomass  
 Exposure time: 96 h  
 Method: Method Not Specified.

EbC50 (Lemna minor (duckweed)): > 0,42 mg/l  
 End point: Biomass  
 Exposure time: 14 d  
 Method: Method Not Specified.

Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg  
 Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : oral LD50: > 2000 mg/kg bodyweight.  
 Species: Anas platyrhynchos (Mallard duck)

dietary LC50: > 5200 mg/kg diet.  
 Exposure time: 8 d  
 Species: Anas platyrhynchos (Mallard duck)

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

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

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Toxicity to fish : Remarks: Material is harmful to aquatic organisms (LC50/EC50/IC50 between 10 and 100 mg/L in the most sensitive species).

LC50 (zebra fish (Brachydanio rerio)): 31,6 mg/l  
 Exposure time: 96 h  
 Remarks: For similar material(s):

## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 62 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 29 mg/l  
End point: Growth rate inhibition  
Exposure time: 96 h  
Remarks: For similar material(s):
- Toxicity to microorganisms : EC50 (activated sludge): 550 mg/l  
End point: Respiration rates.  
Exposure time: 3 h  
Remarks: For similar material(s):
- Toxicity to fish (Chronic toxicity) : NOEC: 0,23 mg/l  
End point: survival  
Exposure time: 72 d  
Species: Rainbow trout (Salmo gairdneri)  
Remarks: For similar material(s):
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,18 mg/l  
End point: number of offspring  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: For similar material(s):

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

- Toxicity to fish : Remarks: For similar material(s):  
Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).  
  
Remarks: For similar material(s):  
Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species).  
  
LC50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Remarks: For similar material(s):
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 3 - 10 mg/l  
Exposure time: 48 h  
Remarks: For similar material(s):
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 11 mg/l  
Exposure time: 72 h  
Remarks: For similar material(s):

**Ecotoxicology Assessment**

- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## PALLAS™ 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

---

**12.2 Persistence and degradability****Product:**

Biodegradability : Result: Material is expected to be readily biodegradable.  
Biodegradation: 65,3 %  
Exposure time: 28 d  
Remarks: Material is expected to be readily biodegradable.  
10-day Window: Fail

**Components:****pyroxsulam (ISO):**

Biodegradability : Test Type: aerobic  
Biodegradation: 20 - 30 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B or Equivalent  
Remarks: 10-day Window: Fail

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

Biodegradability : Remarks: For similar material(s):  
Biodegradation may occur under aerobic conditions (in the presence of oxygen).  
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.

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.  
  
Biodegradation: 2,9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E or Equivalent  
Remarks: 10-day Window: Fail

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

Biodegradability : Remarks: Material is inherently biodegradable (reaches > 20% biodegradation in OECD test(s) for inherent biodegradability).

**12.3 Bioaccumulative potential****Components:****pyroxsulam (ISO):**

Partition coefficient: n-octanol/water :  
  
log Pow: -1,01

## PALLAS™ 45 OD

Version 1.0      Revision Date: 31.05.2023      SDS Number: 800080004700      Date of last issue: -  
Date of first issue: 31.05.2023

---

Method: Measured  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

Partition coefficient: n-octanol/water : Remarks: No data available for this product.  
For similar material(s):  
Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**Cloquintocet-mexyl:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 122 - 621

Partition coefficient: n-octanol/water :

log Pow: 5,3  
Method: Estimated.  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

log Pow: 5,2 (25 °C)  
pH: 7

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Partition coefficient: n-octanol/water : log Pow: 4,6  
Method: OECD Test Guideline 107 or Equivalent  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

Partition coefficient: n-octanol/water : Remarks: No data available for this product.  
For similar material(s):  
Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**12.4 Mobility in soil****Components:****pyroxsulam (ISO):**

Distribution among environmental compartments : Koc: <= 42  
Method: Estimated.  
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

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

**PALLAS™ 45 OD**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

**Cloquintocet-mexyl:**

Distribution among environmental compartments : Koc: 38070  
Method: Estimated.  
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

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

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

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

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:****pyroxsulam (ISO):**

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).

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

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).

**Cloquintocet-mexyl:**

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).

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

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).

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

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).

**PALLAS™ 45 OD**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

**12.6 Other adverse effects****Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Components:****pyroxsulam (ISO):**

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

**Hydrocarbons, C10-C13, aromatics, <1% naphthalene:**

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

**Cloquintocet-mexyl:**

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

**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

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

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

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

---

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : 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.



## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

**SECTION 14: Transport information****14.1 UN number**

<b>UNRTDG</b>	:	UN 3082
<b>IMDG</b>	:	UN 3082
<b>IATA</b>	:	UN 3082

**14.2 UN proper shipping name**

<b>UNRTDG</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cloquintocet-mexyl, Pyroxsulam)
<b>IMDG</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cloquintocet-mexyl, Pyroxsulam)
<b>IATA</b>	:	Environmentally hazardous substance, liquid, n.o.s. (Cloquintocet-mexyl, Pyroxsulam)

**14.3 Transport hazard class(es)**

<b>UNRTDG</b>	:	9
<b>IMDG</b>	:	9
<b>IATA</b>	:	9

**14.4 Packing group**

<b>UNRTDG</b>	
Packing group	: III
Labels	: 9
<b>IMDG</b>	
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Remarks	: Stowage category A

**IATA (Cargo)**

Packing instruction (cargo aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: Miscellaneous

**IATA (Passenger)**

Packing instruction (passenger aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: Miscellaneous

**14.5 Environmental hazards****IMDG**

**PALLAS™ 45 OD**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

Marine pollutant : yes(Cloquintocet-mexyl, Pyroxsulam)

**14.6 Special precautions for user**

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.

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.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

---

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

**15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

---

**SECTION 16: Other information****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.

Classification was done in accordance with UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Purple Book and complies with the Regulations for Hazardous Chemical Agents, 2021.

**Full text of H-Statements**

H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H336	: May cause drowsiness or dizziness.

## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

H400 : Very toxic 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  
 Asp. Tox. : Aspiration hazard  
 Eye Dam. : Serious eye damage  
 Skin Irrit. : Skin irritation  
 Skin Sens. : Skin sensitisation  
 STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; KECI - 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; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - 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

**Further information****Classification of the mixture:**

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1B	H317

**Classification procedure:**

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment

# SAFETY DATA SHEET



## PALLAS™ 45 OD

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.05.2023	800080004700	Date of first issue: 31.05.2023

---

Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Calculation method

Product code: GF-1847

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.

ZA / 6N