

Safety Data Sheet (SDS) PRED EC/01

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

Page 1 of 9

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Version: 1.0

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

Product identifier:

Identification as on the label/Trade name: **PREDATOR™ 200 EC**

Additional information: Product code PRED EC/01

Relevant identification uses of the substance and uses advised against:

Identified uses: Fungicide.

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

AECI Limited
14 Field Road, LILANTON

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946

Poisons Information Helpline: 0861 555 777

AECI Limited: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to:

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Flammable liquid (Category 3)	H226
Acute toxicity inhalation (Category 4)	H332
Eye irritation (Category 2)	H319
STOT SE 3	H336
Hazardous to the environment (Acute Category 2)	H401
Hazardous to the environment (Chronic Category 2)	H411

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: Flammable liquid and vapour.

The most important adverse human health effects: Harmful if inhaled. Causes moderate eye irritation.

Safety Data Sheet (SDS) PRED EC/01

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

Label elements



Hazard pictograms:

Signal Word: Danger

Hazard Statements: H226 Flammable liquid and vapour. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements: P210 Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking. P260 Do not breathe mist/ vapours/ spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P304+ P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special labelling of certain mixtures: None.

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
	EC-No.		EC1272/2008
Propyl alcohol	71-23-8	20-30%	Flammable liquid (Category 2) H226. Serious eye damage (Category 1) H318. STOT SE 3 H336
	200-746-9		
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)- .omega.-	160875-66-1	20-30%	Acute toxicity oral (Category 4) H302. Serious eye damage (Category 1) H318.
	605-233-7		
Dichlorophen tech	97-23-4	10-20%	Acute toxicity oral (Category 4) H302. Eye irritation (Category 2) H319. Aquatic acute 1 H400. Aquatic chronic 1 H410.
	202-567-1		
Potassium hydroxide	1310-58-3	1-5%	Acute toxicity oral (Category 4) H302. Skin corrosion (Category 1B) H314.
	215-181-3		

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

Safety Data Sheet (SDS) PRED EC/01

Page 3 of 9

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

Most important symptoms and effects, both acute and delayed:

Inhalation: Harmful if inhaled.

Ingestions: May be harmful if swallowed.

Skin contact: May cause skin irritations.

Eye contact: Causes moderate eye irritation

Indication of any immediate medical attention and special treatment needed:

Immediate medical attention maybe required if exposure to the product. Repeated exposure to a toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Carbon dioxide, foam dry chemical and water fog.

SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

LARGE FIRE: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

During a fire, irritating and possibly toxic gasses may be generated by thermal decomposition or combustion. Closed container may explode if pressure builds up. Toxic or irritating gas may be generated during fire.

Advice for fire-fighters:

Isolate the fire area and evacuate downwind. Remove containers from fire area if possible and without risk. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours, fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Keep all personal away harmful by inhalation.

For emergency responders: Use an approved/certified respirator or equivalent, isolate the spill area and limit the access to emergency responders only. Avoid any contact with spilled material, use adequate protective clothes and gloves.

Environmental precautions:

Safety Data Sheet (SDS) PRED EC/01

Page 4 of 9

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapours. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth

For large spills Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use adequate protective equipment to avoid direct contact of product. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL):

None

Biological exposure indices (BEI):

None

Additional exposure limits under the conditions of use:

Exposure control:

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Safety Data Sheet (SDS) PRED EC/01

Page 5 of 9

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product.

Respiratory protection: Respiratory protection is required; use an approved air-purifying respirator.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Liquid.

Colour: Yellow.

Odour: Strong- characteristic.

Odour threshold: No information available.

pH: No information available.

Melting point/range (°C): No information available.

Boiling point/range (°C): No information available.

Flash point (°C): 42 °C (ASTM D93).

Evaporation rate: No information available.

Flammability (solid, gas): No information available

Ignition temperature (°C): No information available.

Upper/lower flammability/explosive limits: No information available.

Vapour pressure (20°C): No information available.

Vapour density: No information available.

Density (25°C): 1.03 g/cm³.

Water solubility (g/l) at 20°C: Easily soluble in cold water, hot water, methanol, diethyl ether, acetone. Very slightly soluble in n-octanol.

Safety Data Sheet (SDS) PRED EC/01

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

n-Octanol/Water partition coefficient: The product is much more soluble in water.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity: No information available.

Physical hazards:

Explosive properties: Not explosive.

Oxidising properties: Not an oxidiser.

Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions. Avoid elevated temperatures.

Chemical stability:

Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions:

Reactive to oxidizing agents. Slightly reactive to reactive with acids.

Conditions to avoid:

Heat, sparks, flame and build-up of static electricity. Non-reactive with reducing agents, combustible materials, organic materials, metals, acids, alkalis.

Incompatible materials:

Incompatible with oxidizers.

Hazardous decomposition products:

Carbon monoxide, carbon dioxide, sulphur oxides and other toxic gases may be released in thermal decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Method: No Information available.

Dosage: No Information available.

Routes of administration: No Information available.

Results: No Information available.

Safety Data Sheet (SDS) PRED EC/01

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

Page 7 of 9

Absorption: No Information available.

Distribution: No Information available.

Metabolism: No Information available.

Excretion: Acetochlor:

In animals, extensively metabolised in rats and readily eliminated in the excreta.

Information on toxicological effects:

Acute toxicity:

Acute oral LD₅₀ for female Wistar rats >2000 mg/kg (tested).

Dermal LD₅₀ for rats >2000 mg/kg (tested).

Inhalation LC₅₀ (4 h) for Wistar rats >2.53 mg/l (tested). (OECD Guideline no 403)

Chronic toxicity: No information available.

Skin corrosion/irritation:

Predator 200EC

Non-irritant to skin of rabbit (tested).

Isotridecanol, ethoxylated

Mildly irritating for rabbit.

Eye damage/irritation.

Predator 200EC

Moderate irritant to eye of rabbit (tested).

Isotridecanol, ethoxylated

Irreversible damage for rabbits.

Respiratory or skin sensitization:

Predator 200EC

For skin a non-sensitizer for rabbit.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT-single exposure: No information available.

STOT- repeated exposure: No information available.

Aspiration hazard: No information available.

Safety Data Sheet (SDS) PRED EC/01

Page 8 of 9

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

Isotridecanol, ethoxylated

Fish: LC₅₀ (96 h) for *Leuciscus idus* >1-<10 mg/ℓ.

Daphnia: LC₅₀ (48 h) *Daphnia magna* >1-<10 mg/ℓ.

Aquatic plants: EC₅₀ (72 h) >1-<10 mg/ℓ.

Microorganisms effect on activated sludge: EC₁₀ (17 h) > 2500 mg/ℓ.

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil

No information available.

Results of PBT& vPvB assessment:

No information available.

Other adverse effects:

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	1993	1993	1993
UN Proper shipping name:	FLAMMABLE LIQUID, N.O.S	FLAMMABLE LIQUID, N.O.S	FLAMMABLE LIQUID, N.O.S
Transport hazard class:	3	3	3
Packaging group:	III	III	III
Marine pollutant:	Yes	Yes	Yes
Special precautions for user:	No information	No information	No information
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	No information	No information	No information

Inland waterways: Not required.

Emergency response information: No information available.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Safety Data Sheet (SDS) PRED EC/01

Page 9 of 9

According to SANS 11014:2010 & 10234:2008

Revision Date: 2021/03/15

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH)

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned:

Relevant classification and H statements (number and full text):

STOT SE 3- Specific target Organ Toxicity single exposure (Category 3)

Aquatic acute 1- Hazardous to the aquatic environment (acute category 1)

Aquatic acute 2- Hazardous to the aquatic environment (acute category 2)

Aquatic chronic 1- Hazardous to the aquatic environment (chronic category 1)

Aquatic chronic 2- Hazardous to the aquatic environment (chronic category 2)

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H401 Toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.