



SAFETY DATA SHEET
CROPSHIELD
(Pendimethalin 38.7% CS)

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Issued date: 15.01.2025
Revision No: 00
Ref: GAPL/CROPSHIELD

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

Product name:
Use / description of product:
Company name:

CROPSHIELD
Use as an Agricultural / Horticultural Plant growth regulator
GREEN AGRO CARE & POLYMERS PVT LIMITED
FLAT No.605, SAPPHIRE BLD, CROW CITY,
Near Mutha College, Kalyan west, Thane, Maharashtra, INDIA.
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2. HAZARDS IDENTIFICATION

GHS Classification
Hazard Symbol



Signal word:
Hazard statement(s):

WARNING

H304: May be fatal if swallowed & enters airways.
H336: Causes serious eye irritation.
H351: Suspected to be causing cancer
H361d: Suspected of damaging the unborn child.
H400: Very toxic to Aquatic life
H410 Very toxic to Aquatic life with long lasting effects

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P284 Wear respiratory protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS	% w/w
Active ingredient (Pendimethalin)	40487-42-1	38.7
Other ingredients	-----	QS

4. FIRST AID MEASURES

Most Important symptoms and effects, both acute and delayed

Skin contact
Eye contact
Ingestion

There may be mild irritation at the site of contact
There may be irritation and redness.
There may be soreness and redness of the mouth and throat



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Description of first aid measures

In general	Never give fluids or induce vomiting if patient is unconscious or is having convulsions. Seek medical advice immediately (show the label where possible)
After Ingestion	Do not induce vomiting. Provided the patient is conscious. Wash mouth with water and give plenty of water to drink. Consult a physician or Doctor if victim feels unwell.
After eye contact	Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
After skin contact	Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.
After Inhalation	Remove to fresh air. Consult a physician if irritation develops

Indication of any immediate medical attention and special treatment needed

Supportive care. No specific antidote. Treatment based on judgement of physician, in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Water spray. Carbon dioxide. Dry chemical powder.
Exposure hazards:	May form flammable mixture. In combustion emits toxic fumes of sulphur Oxides, nitrogen oxides, carbon dioxide / carbon monoxide.
Protection of fire-fighters:	Wear self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Eliminate all sources of ignition. Do not create dust.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure, which may produce sparks.

7. HANDLING AND STORAGE

Handling requirements:	Keep out of reach of children. Do not eat, drink or smoke when using this product. Remove all sources of ignition. Wash thoroughly after handling. Handle in accordance with good industrial and safety practice.
Storage conditions:	Store in original container. Store locked up.
Suitable packaging:	Must only be kept in original packaging.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

Enclosures, local exhaust ventilation, or other engineering controls to maintain airborne

limits. If exposure limits have not been established

Respiratory protection:

Wear approved respirator.

Hand protection:

Protective gloves

Requirements can vary as a function of the use. Therefore, it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection:

Safety goggles.

Skin protection:

Mixers and loaders must wear overalls, protective goggles and chemical-resistant apron.

Applicators and other handlers must wear overalls, goggles and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:

Liquid

Colour:

Yellow coloured flowing

Odour:

No distinct odour

Solubility in water:

In water 0.33 mg/l @ 20 °C.

pH

7.0 – 8.0

Flash point °C:

> 100 °C

Density

1.06 ± 0.03 @ 20 °C

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to avoid:

Excessive temperatures.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:

Pendimethalin

Acute toxicity (Assessment largely or completely based on data for active substance)

Acute Oral LD₅₀ (Rat)

> 5000 mg/kg

Acute Dermal LD₅₀ (Rat)

> 2000 mg/kg

Acute Inhalation LC₅₀

> 5.0 mg/L of air

EYE Irritation (Rabbit)

Slight irritating to eyes

SKIN Irritation (Rabbit)

Non skin irritant

Skin Sensitization (Guinea Pig)

Not skin sensitizer

12. ECOLOGICAL INFORMATION

Ecotoxicity: (Assessment largely or completely based on data for active substance)

Aquatic toxicity :

Material is very toxic to aquatic organisms.

Fish

Rainbow trout : 0.14 mg/L

Acute LC₅₀ (96 h,)

Bluegill Sunfish: 0.20 mg/L

Acute

EC₅₀ (48 h,)

Daphnia 0.28 mg/L

Bird LD₅₀ (48 hr)



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Acute Oral LC₅₀

Mallard Duck > 1421 mg/kg
 Bobwhite quail > 4187 mg/kg

Algae (72h)

Acute Oral, LD₅₀

Green algae (*Pseudokirchneriella subcapitata*) 15.2 mg/L

Honey Bee

LD₅₀

Material is toxic to bees
 (Oral, Contact, 48 h): > 101.2 µg/bee

Earthworm

EC₅₀ (14 d)

Eisenia fetida - 1000 ppm

Environmental Fate

Persistence and Degradability:

No information available.

Bio-accumulation potential:

No information available

Mobility in soil:

No information available

13. DISPOSAL CONSIDERATIONS

Disposal operations:

Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

Disposal of packaging:

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

U.S> Department of Transportation (DOT)

Bulk

UN no:

3082

Shipping name:

Environmentally Hazardous Substance, liquid, n.o.s. (Pendimethalin)
 9

Packing group:

III

Land Transport (ADR / RID)

UN no:

3082

Shipping name:

Environmentally Hazardous Substance, liquid, n.o.s. (Pendimethalin)
 9

Hazard Class:

9

Packing group:

III

Marine Transport (IMDG / IMO)

UN no:

3082

Shipping name:

Environmentally Hazardous Substance, liquid, n.o.s. (Pendimethalin)

Hazard Class:

9

Packing group:

III

Marine pollutant:

Yes

EmS:

F-A, S-F

Air transport (IATA / ICAO)

UN no:

3082

Shipping name:

Environmentally Hazardous Substance, liquid, n.o.s. (Pendimethalin)

Hazard Class:

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Packing group:

III

Cargo Packing instructions:

15. REGULATORY INFORMATION

Risk Phrases

R22 - Harmful if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S35 - This material and its container must be disposed of in a safe way.

S57 - Use appropriate containment to avoid environmental contamination. To avoid risks to man and the environment, comply with the instructions for use

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.