

SAFETY DATA SHEET



DuPont KLOBEN 25WP Herbicide

Version 2.1

Revision Date 14.12.2016

Document no. 130000029066

This SDS adheres to the standards and regulatory requirements of India and may not meet the regulatory requirements in other countries.

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

Product name : DuPont KLOBEN 25WP Herbicide

Other names : B10611684

Recommended use of the chemical and restriction on use

Recommended use : Herbicide

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer, importer, supplier, representative office

Company : E. I. DuPont India Pvt. Ltd.

Street address : 7th Floor, Tower C, DLF Cyber Greens, Sector 25A, DLF City Phase III, Gurgaon - 122002, Haryana
India

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Telefax : +91-124-2540889 / 90 / 91 / 92

Emergency telephone number : +91-124-4092888 / +91-124-2353777

2. HAZARDS IDENTIFICATION

Product hazard classification

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : Very toxic to aquatic life with long lasting effects.

Precautionary statements : Collect spillage.
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture


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Components

Chemical name	CAS-No.	Concentration
Chlorimuron ethyl	90982-32-4	25 %
Kaolin	1332-58-7	35 - 40%
Other Ingredients		35 - 40%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

- Inhalation** : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.
- Skin contact** : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Eye contact** : Hold eye 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 eye. Call a poison control center or doctor for treatment advice.
- Ingestion** : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed** : No information available.
- Protection of first-aiders** : No information available.
- Notes to physician** : No information available.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)
- Unsuitable extinguishing media** : High volume water jet, (contamination risk)
- Specific hazards** : No information available.
- Special protective equipment for firefighters** : Wear full protective clothing and self-contained breathing apparatus.
- Specific extinguishing methods** : No information available.

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Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. 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.
(on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No information available.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

Additional advice : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Precautions for safe handling : Keep away from heat and sources of ignition.

Storage

Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Applicable occupational exposure limits are listed below.

Chemical name	Occupational Exposure Limits	Regulation
Kaolin		
TWA	2 mg/m ³ (Respirable fraction.) The value is for particulate matter containing no asbestos and <1% crystalline silica.	US ACGIH (2011)

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- Engineering measures** : Use only with adequate ventilation.
- Biological occupational exposure limits** : No information available.
- Personal protective equipment**
- Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
- Hand protection : Material: Protective gloves
- Eye protection : Wear protective eyewear to prevent contact with this substance.
- Skin protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.
- Hygiene measures** : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.
- Protective measures** : All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. End users of this product should follow label instructions for personal protection when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance (Physical state, form, colour, etc.)**

- Physical state : solid
Form : solid, wettable powder
Colour : No information available.

Odour : No information available.

Odour Threshold : No information available.

pH : No information available.

Melting point/freezing point

No information available.

Initial boiling point and boiling range

No information available.

Flash point : No information available.

Evaporation rate : No information available.

Flammability (solid, gas) : No information available.

Upper/lower flammability or explosive limits

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Upper explosion limit	:	No information available.
Lower explosion limit	:	No information available.
Vapour pressure	:	No information available.
Vapour density	:	No information available.
Density		No information available.
Solubility(ies)		
Water solubility	:	No information available.
Partition coefficient: n-octanol/water	:	No information available.
Auto-ignition temperature		No information available.
Decomposition temperature	:	No information available.
Viscosity		
Viscosity, kinematic	:	No information available.
Molecular weight	:	No information available.

10. STABILITY AND REACTIVITY

Reactivity	:	No information available.
Chemical stability	:	Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	:	Polymerization will not occur.
Conditions to avoid	:	None reasonably foreseeable.
Materials to avoid	:	No materials to be especially mentioned.
Hazardous decomposition products	:	No information available.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral

DuPont KLOBEN 25WP Herbicide : LD50/Rat: > 5,000 mg/kg

Inhalation

DuPont KLOBEN 25WP Herbicide : LC50/4 h/Rat(dust/mist): > 5.0 mg/l

Dermal

DuPont KLOBEN 25WP Herbicide : LD50/Rabbit: > 2,000 mg/kg

Skin corrosion/irritation


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- DuPont KLOBEN 25WP Herbicide : Species: Rabbit
Result: No skin irritation
- Serious eye damage/eye irritation**
DuPont KLOBEN 25WP Herbicide : Species: Rabbit
Result: No eye irritation
- Respiratory or skin sensitisation**
DuPont KLOBEN 25WP Herbicide : Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
- Germ cell mutagenicity**
Chlorimuron ethyl : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
- Carcinogenicity**
Chlorimuron ethyl : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
- Reproductive toxicity**
Chlorimuron ethyl : Reproductive toxicity: No toxicity to reproduction
Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- Specific Target Organ Toxicity**
Specific target organ toxicity - single exposure
Chlorimuron ethyl : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Specific target organ toxicity - repeated exposure
Chlorimuron ethyl : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration hazard**
Chlorimuron ethyl : No aspiration toxicity classification
- Other**
Chlorimuron ethyl : Repeated dose toxicity:
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
Dermal/Rabbit
No toxicologically significant effects were found.
Oral/Dog
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Abnormal decrease in number of red blood cells
Oral/Rat
No adverse effect has been observed in chronic toxicity tests.

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

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Acute and prolonged toxicity to fish

Chlorimuron ethyl : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l
LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 100 mg/l

Toxicity to aquatic plants

Chlorimuron ethyl : EC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.001 mg/l

Acute toxicity to aquatic invertebrates

Chlorimuron ethyl : EC50/48 h/Daphnia magna (Water flea): > 1,000 mg/l

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in soil

No information available.

Other adverse effects

DuPont KLOBEN 25WP Herbicide : See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION

IMDG

UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Chlorimuron ethyl)
Transport hazard class : 9
Packing group : III
Hazchem Code : 2Z
Marine pollutant : yes (Chlorimuron ethyl)

IATA

UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Chlorimuron ethyl)
Transport hazard class : 9
Packing group : III

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Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not applicable

15. REGULATORY INFORMATION

Product subject to regulatory requirements under the Insecticides Act, 1968 and Insecticides Rules, 1971

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet

1. The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through April, 2001
2. Manufacture, Storage and Import of Hazardous Chemical Rules 1989, as amended through January 2000

References

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Take notice of the directions of use on the label.

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Significant change from previous version is denoted with a double bar.

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