

SAFETY DATA SHEET



Algrip® Herbicide

Version 1.0

Revision Date 08.01.2018

Ref. 130000000083

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 information

Trade name : Algrip® Herbicide

Use of the
Substance/Mixture : Herbicide

Information on
manufacturer/Supplier
Importer : **FMC INDIA PRIVATE LIMITED**
Embassy Star, No. 8,
Palace Road, High Grounds, Gurgaon - 122002, Haryana
Bangalore – 560 052
India

Customer care
representative: : +91-80-22384311,
For fire, leak, spill or other
accident emergencies: : U.S.A.: +1 800 / 424 9300 (CHEMTREC)
All other countries: +1 703 / 527 3887 (CHEMTREC - Collect)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : DPX-T6376 20DF
B10042355

Components

| Chemical Name | CAS-No. | Concentration |
|---|------------|---------------|
| Metsulfuron methyl | 74223-64-6 | 20 % |
| Alkylnaphthalenesulfonic acid, sodium salt/formaldehyde polycondensate | 68425-94-5 | 3 % |
| Other Ingredients | | 77 % |

3. HAZARDS IDENTIFICATION

Risks

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety data

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

When using do not eat, drink or smoke.

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

Use appropriate container to avoid environmental contamination.

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

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4. FIRST AID MEASURES

- General advice : 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.
- 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. If eye irritation persists, consult a specialist.
- Ingestion : Consult a physician if necessary. 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. Never give anything by mouth to an unconscious person. Consult a physician.

Notes to physician

- Symptoms : No cases of human intoxication are known and the symptoms of experimental intoxication are not known.
- Treatment : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk)
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- 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. Control Runoff.
- (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 : Review sections 5 and 7 of the SDS before proceeding with clean-up. Use personal protective equipment.

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

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

Additional advice : Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE**Handling**

Advice on safe handling : Do not breathe dust or spray mist. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Advice on protection against fire and explosion : Dust may form explosive mixture in air. Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers : Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits**

| Chemical Name | Occupational Exposure Limits | | Regulation |
|--------------------|------------------------------|----------------------|---|
| Sucrose | TWA | 10 mg/m ³ | US. ACGIH Threshold Limit Values (2011) |
| Metsulfuron methyl | AEL * | 10 mg/m ³ | AEL |

Engineering measures

Use only with adequate ventilation.

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 and body protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using

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tobacco, or using the toilet. Wash all protective clothing after use.

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

Form : solid , powder

Colour : off-white

Odour : odourless

pH : no data available

Melting point/range : Not available for this mixture.

Flash point : not applicable

Autoignition temperature : not auto-flammable

Explosive properties : Not explosive

Bulk density : 0.63 g/ml loose
0.89 g/ml packed

Water solubility : dispersible

Viscosity, kinematic : not applicable

10. STABILITY AND REACTIVITY

Conditions to avoid : Processing temperature: > 140 °C
Decomposes on heating. To avoid thermal decomposition, do not overheat.
Under severe dusting conditions, this material may form explosive mixtures in air.

Materials to avoid : None reasonably foreseeable.

Hazardous decomposition products : No information available.

Hazardous reactions : Stable at normal temperatures and storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50/rat : > 5,000 mg/kg

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Acute oral toxicity

- Metsulfuron methyl : LD50/rat : > 5,000 mg/kg

Acute inhalation toxicity

- Metsulfuron methyl : LC50/4 h/rat : > 5.3 mg/l

Acute dermal toxicity

: LD50/rabbit : > 2,000 mg/kg

Acute dermal toxicity

- Metsulfuron methyl : LD50/rabbit : > 5,000 mg/kg

Skin irritation

: rabbit

Result: No skin irritation

Skin irritation

- Metsulfuron methyl : rabbit

Result: No skin irritation

- Alkyl-naphthalenesulfonic acid, sodium salt/formaldehyde polycondensate

: animals (unspecified species)

Classification: Irritating to skin. Result: Skin irritation

Eye irritation

: rabbit

Result: No eye irritation

Eye irritation

- Metsulfuron methyl : rabbit

Result: No eye irritation

- Alkyl-naphthalenesulfonic acid, sodium salt/formaldehyde polycondensate

: animals (unspecified species)

Classification: Irritating to eyes. Result: Eye irritation

Sensitisation

: guinea pig Classification: Did not cause sensitization on laboratory animals.

Sensitisation

- Metsulfuron methyl

: guinea pig Result: Animal test did not cause sensitization by skin contact.

Repeated dose toxicity

: Dermal rabbit Skin irritation

Oral rat Reduced body weight gain Organ weight changes Liver

Repeated dose toxicity

- Metsulfuron methyl

: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral rat Reduced body weight gain Organ weight changes Liver

Dermal rabbit Skin irritation

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Mutagenicity assessment

- Metsulfuron methyl : Did not show mutagenic effects in animal experiments.
Did not cause genetic damage in cultured bacterial cells.
Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Carcinogenicity assessment

- Metsulfuron methyl : Did not show carcinogenic effects in animal experiments.

Toxicity to reproduction assessment

- Metsulfuron methyl : Animal testing did not show any effects on fertility.

Assessment teratogenicity

- Metsulfuron methyl : Animal testing showed no developmental toxicity.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

- Toxicity to fish : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 1,100 mg/l
LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 1,000 mg/l

Toxicity to fish

- Metsulfuron methyl : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 150 mg/l

Toxicity to algae

- Metsulfuron methyl : EC50/72 h/Anabaena flos-aquae (cyanobacteria): 0.066 mg/l
EC50/14 d/Lemna minor: 0.00036 mg/l

Aquatic toxicity

- Metsulfuron methyl : EC50/48 h/Daphnia magna (Water flea): > 1,000 mg/l

Aquatic toxicity

- Metsulfuron methyl : EC50/48 h/Daphnia magna (Water flea): > 120 mg/l

Further information on ecology

- Additional ecological information : See product label for additional application instructions relating to environmental precautions.

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13. DISPOSAL CONSIDERATIONS

- Product : 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
- Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Metsulfuron methyl)
- Class : 9
- Packing group : III
- Labelling No. : 9
- Marine pollutant : yes (Metsulfuron methyl)

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- UN number : 3077
- Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Metsulfuron methyl)
- Class : 9
- Packing group : III
- Labelling No. : 9MI

- Hazchem Code : 2Z

15. REGULATORY INFORMATION**National regulatory information**

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

Regulations in other countries

- Symbol(s) : N Dangerous for the environment
- R-phrases(s) : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrases(s) : S 2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feedingstuffs.
S20/21 When using do not eat, drink or smoke.
S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate container to avoid environmental contamination.
SP 1 Do not contaminate water with the product or its container
(Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and

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roads).

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
3. Insecticide Act, 1968 (46 of 1968, Dt. 2-9-1968)
4. Insecticide Rule, 1971 (GSR 1650, Dt. 9-10-1971)

Further information:

Before use read FMC's safety information. Take notice of the directions of use on the label.

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

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