





**Synonyms** 2,4-D-ethyl ester 38% EC;

2,4-Dichlorophenoxy acetic acid ethyl ester;

Ethyl (2,4-dichlorophenoxy)acetate

Chemical structure and identity

 $\begin{array}{lll} \text{Molecular formula} & & C_{10}\text{H}_{10}\text{Cl}_2\text{O}_3 \\ \text{Molecular weight} & 249 \\ \text{CAS number} & 533-23-3 \\ \text{PRD number} & \text{AG409120} \\ \text{EINECS No} & 208-538-9 \end{array}$ 

**Specifications** Appearance

2,4-D-ethyl ester content Total extractable 2,4-D acid content Free acidity as 2,4-D acid Emulsion stability

Emulsion stability Comply Cold test Comply

Physical properties

**Applications** 

Density 1.01 to 1.05 g/ml Solubility in water Forms emulsion Flash point More than 24.5°C

**Description** RUGO is an amber to brown coloured liquid free from extraneous matter.

RUGO is a selective and systemic post-emergence herbicide readily absorbed by leaves. The product is used to control annual and perennial broad-leaved weeds in a range of

Amber to brown coloured liquid

38% minimum 34% minimum

4% Maximum

crops.

Packaging RUGO is available in 250 ml to 5 L pet | aluminum bottles and 200 L HDPE drums. Other

packaging can be considered on request.

Storage and handling Keep containers tightly closed and store in a cool, dry and well-ventilated area. Protect

the containers against physical damage. Control vapour or mist formation. Avoid contact with eyes, skin or clothing. Keep out of reach of children. Always refer to the Safety

Data Sheet (SDS) for detailed information on storage and handling.

Safety Wear protective gloves, a dust mask and goggles. Keep material away from foodstuffs,

beverages and feed. Wash hands thoroughly after handling this product. Always refer to

the SDS for detailed information on safety.

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## Technical Data Sheet | Crop Protection Business

First aid

**Eye contact:** Rinse eyes in open position for several minutes with plenty of water. Consult a physician immediately.

**Skin contact:** Wash the affected area thoroughly with soap and water. Remove clothing contaminated by the product. Consult a physician immediately.

**Ingestion:** Avoid ingestion as the product is harmful. Induce vomiting by giving a tablespoon of salt dissolved in a glass of warm water and repeat until vomit fluid is clear. Consult a physician immediately.

**Inhalation:** Avoid inhalation as the product is harmful. Shift the affected person to fresh air. In case of irregular breathing or respiratory arrest, provide artificial respiration. Consult a physician immediately on suspicion of intoxication.

Spills and disposal

In case of spillage and | or leakage, absorb the spilled material carefully with suitable liquid-binding material (such as sand, diatomite, acid binders, universal binders or sawdust). Prevent generation of vapour or mist. Do not allow the spilled material to enter sewers, surface or groundwater. Dispose of the contents | container(s) in accordance with local, regional, national or international regulations | guidelines as applicable.

Contact

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Note

RUGO® is a registered trade mark for 2,4-D-ethyl ester 38% EC which belongs to Atul Ltd.

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