

SAFETY DATA SHEET

Revised edition no : 2

Date : 22/11/2006

UPROOT Supersedes : CA701569

www.lisam.com

ÍN ÍX N : Dangerous for Xn : Harmful the environment

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

Identification of the product : Triclopyr 103.6 g/L acid equivalent (as Triclopyr butoxy ethyl ester) + 2.4-D 93 g/L acid equivalent (as 2,4-D ethyl hexyl ester), EC.

Trade name : UpRoot Use :
Agriculture.

Type of product : Herbicide.

Company identification : AGRIPHAR S.A. *

Rue de Renory, 26/1
B-4102 OugrÈe Belgique-Belgie

Tel. : +32 (0)4 385 97 11

Fax : +32 (0)4 385 97 49

e-mail: info@agriphar.com

<http://www.agriphar.com>

Emergency phone nr : See Anti-poison center. *

2 COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Substance name Contents CAS No / EC No / Index No Symbol(s) R-Phrase(s)

2,4 D EHE : 15 to 16.2 % 1928-43-4 /----- / 607-308-00-X Xn N 22-43-50/53

Log P octanol / water at 20°C : 5.78

Rat oral LD50 [mg/kg] : 720 to 982

Percutaneous (rat) LD50 [mg/kg] : > 2000

Rat inhalation LC50 [mg/l/4h] : > 5.39

LC50-96 Hour - fish [mg/l] : > 1.9

48 H-CE50 - Daphnia magna [mg/l] : > 1.91

IC50 72h Algae [mg/l]: 0.23

Triclopyr BEE: 14 to 16.4 % 64700-56-7 / ----- / -----N Xn 22-43-50/53

Log P octanol / water at 20°C: -0.45

Rat oral LD50 [mg/kg]: 803

Percutaneous (rat) LD50 [mg/kg]: > 2000

Rat inhalation LC50 [mg/l/4h]: > 4.8

LC50-96 Hour - fish [mg/l]: 0.31

48 H-CE50 - Daphnia magna [mg/l]: 2.9

IC50 72h Algae [mg/l]: > 2.78

Solvent: 50 to 60 % ----- / ----- / ----- n 65-66

Solvent: 5 to 10 % ----- / ----- / ----- 36/38

3 HAZARDS IDENTIFICATION

Risk Phrases: Irritating to eyes and skin. Harmful: may cause lung damage if swallowed. Environmental hazard: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Primary route of exposure: Skin contact. Vapours inhalation.

Symptoms relating to use

- Inhalation: Overexposure to vapours may result in headache, nausea and reduced blood pressure.

- Skin contact: Repeated or prolonged skin contact may cause irritation progressing to a burn.

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3 HAZARDS IDENTIFICATION (continued)

- Eye contact : Eye irritant upon direct contact. Risk of damage to eyes.

- Ingestion : Weakness. Abdominal pain, nausea. Harmful : may cause lung damage if

swallowed.

4 FIRST AID MEASURES

First aid measures

- Inhalation : Assure fresh air breathing. Rest. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Obtain medical attention if breathing difficulty

persists.

- Skin contact : For even minor contact, immediately remove contaminated clothing/wash skin

thoroughly with mild soap / water. Obtain medical attention if irritation persists.

- Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.

Obtain emergency medical attention if pain, blinking, tears or redness persist.

- Ingestion : Rinse mouth. DO NOT INDUCE VOMITING. Seek medical attention immediately.

5 FIRE-FIGHTING MEASURES

Flammable class : Not combustible.

Extinguishing media

- Suitable extinguishing media : Small fire: Dry chemical.

Large fire: Alcohol foam. Water spray. Water fog.

- Unsuitable extinguishing media : Do not use a heavy water stream.

Specific hazards : Thermal decomposition generates : Aldehyde. Hydrocarbon. Carbon monoxide. *

Carbon dioxide. Halogens. Nitrogen oxides.

Protection against fire : Wear proper protective equipment.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water

to enter environment.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Spill should be handled by trained cleaning personnel properly equipped with

respiratory and eye protection. Respiratory protection equipment may be necessary.

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers

or public waters.

Clean up methods : Clean up any spills as soon as possible, using an absorbent material to collect it.

Use suitable disposal containers.

7 HANDLING AND STORAGE

General : No naked lights. No smoking.

Precautions in handling and storage : Handle in accordance with good industrial hygiene and safety procedures.

Storage : Provide local exhaust or general room ventilation to minimize dust and/or vapour

concentrations. Keep container closed when not in use.

Handling : Ensure prompt removal from eyes, skin and clothing. Wash hands and other

exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection [= Ū :

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

- Respiratory protection : Where excessive vapour may result, wear approved mask.
- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Skin protection : Skin protection appropriate to the conditions of use should be provided.
- Eye protection : Chemical goggles or face shield with safety glasses.
- Ingestion : When using, do not eat, drink or smoke.

Industrial hygiene : Local exhaust and general ventilation must be adequate to meet exposure

standards. Emergency eye wash fountains and safety showers should be available

in the immediate vicinity of any potential exposure.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C : Liquid.

Colour : Yellow-brown.

Odour : Characteristic.

pH value : 5

Melting point [°C] : < 0

Density : 0.918

Viscosity at 40°C [mm²/s] : 2.963

Surface tension [mN/m] : 28.4, 25°C

Solubility in water : Emulsion.

Flash point [°C] : 57.6

Auto-ignition temperature [°C] : 242

10 STABILITY AND REACTIVITY

Stability and reactivity : Stable.

Hazardous decomposition products : Thermal decomposition generates :
Aldehyde. Hydrocarbon. Carbon monoxide. *

Carbon dioxide. Halogens. Nitrogen oxides.

Hazardous reactions : Reacts with : Oxidizing agent. Strong acids. Strong bases.

Conditions to avoid : Heat. Direct sunlight.

11 TOXICOLOGICAL INFORMATION

Acute toxicity

- Dermal : Irritating to skin. Non-sensitizer.

- Ocular : Irritating to eyes.

Rat oral LD50 [mg/kg] : >2000

Rabbit dermal LD50 [mg/kg] : >2000

Rat inhalation LC50 [mg/l/4h] : 5.65

On ingredients : See Heading : Information on ingredients.

12 ECOLOGICAL INFORMATION

Ecological effects information : Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

LC50-96 Hour - fish [mg/l] : 1.2

48 Hour-EC50 - Daphnia magna [mg/l] : 0.7

IC50 72h Algae [mg/l] : 14

On ingredients : See Heading : Information on ingredients.

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13 DISPOSAL CONSIDERATIONS

General : Dispose of this material and its container at hazardous or special waste collection

point. Dispose in a safe manner in accordance with local/national regulations.

14 TRANSPORT INFORMATION

General information : Ensure vehicle driver is aware of the potential hazards of the load and knows what

to do in the event of an accident or an emergency.

Land transport

- Proper shipping name : UN 3295 HYDROCARBONS, LIQUID, N.O.S.
(Kerosine : distillates, hydrotreated

light), 3, III

- UN No. : 3295

- H.I. nr : 30

- ADR/RID : Class : 3

- ADR/RID Packing group : Group : III

- Labelling ADR }

Sea transport

- Proper shipping name : UN 3295 HYDROCARBONS, LIQUID, N.O.S.
(Kerosine : distillates, hydrotreated

light), 3, III

- IMO-IMDG code : Class : 3

- IMO Packing group : Group : III

- IMDG-Marine pollution : Marine pollutant

- Hazard Label(s) }‰

Air transport

- Proper shipping name : UN 3295 HYDROCARBONS, LIQUID, N.O.S.
(Kerosine : distillates, hydrotreated

light), 3, III

- IATA - Class or division : Class : 3

- IATA Packing group : Group : III
- Packing instruction : 309/60L - 310/220L
- Hazard Label(s) }

15 REGULATORY INFORMATION

- Symbol(s) : XN: Harmful.

N : Dangerous for the environment

- R Phrase(s) : R36/38 : Irritating to eyes and skin.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R65 : Harmful : may cause lung damage if swallowed.

- S Phrase(s) : S2 : 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.

S23 : Do not breathe the gas, fumes, vapours, spray.

S24/25 : Avoid contact with skin and eyes.

S29/35 : Do not empty into drains ; dispose of this material and its container in a

safe way.

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

S61 : Avoid release to the environment. Refer to special instructions/Safety data

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15 REGULATORY INFORMATION (continued)

sheets.

S62 : If swallowed, do not induce vomiting : seek medical advice immediately and

show this container or label.

16 OTHER INFORMATION

Further information : Revision - See : * *

The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58EC.

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