



SAFETY DATA SHEET

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Revised edition no : 4

Date : 24/6/2009

Supersedes : 10/12/2008

Cleancrop Broadshot

CA701553

www.lisam.com



N : Dangerous for the environment



Xn : Harmful

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

Identification of the product	: 200 g/L 2,4-D ae as the ethyl hexyl ester, 85 g/L Dicamba, 65 g/L Triclopyr ae as the butoxyethyl ester.
Trade name	: Cleancrop Broadshot
Use	: Industrial.
Type of product	: Herbicide.
Company identification	: AGRIPHAR S.A. Rue de Renory, 26/1 B-4102 Ougrée 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 HAZARDS IDENTIFICATION

Risk Phrases	: Harmful if swallowed. Irritating to eyes, respiratory system and skin. Harmful : may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.
Dangerous product	: Flammable. May form flammable vapour-air mixture.
Environmental hazard	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Primary route of exposure	: Vapours inhalation. Skin contact.
Symptoms relating to use	
- Inhalation	: Xi : Irritant Cough. Shortness of breath. Breathing difficulties. Headache. Dizziness. Drowsiness. Giddiness.
- Skin contact	: Itch. Redness, pain. May cause immediate skin irritation and blistering.
- Eye contact	: Eye irritant upon direct contact.
- Ingestion	: Abdominal pain, nausea.

3 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)
<u>2,4 D EHE</u>	: 27 to 29.9 %	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			
<u>Triclopyr BEE</u>	: 7.7 to 9.2 %	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			

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3 COMPOSITION / INFORMATION ON INGREDIENTS (continued)

Substance name	Contents	CAS No / EC No / Index No	Symbol(s)	R-Phrase(s)
<i>IC50 72h Algae [mg/l]</i>	: > 2.78			
<u>Dicamba (ISO)</u>	: 7.2 to 8.7 %	1918-00-9 / 217-635-6 / 607-043-00-X	Xn	22-41-52/53
<i>Log P octanol / water at 20°C</i>	: .55			
<i>Rat oral LD50 [mg/kg]</i>	: 1581 to 1879			
<i>Percutaneous (rat) LD50 [mg/kg]</i>	: > 2000			
<i>Rat inhalation LC50 [mg/l/4h]</i>	: > 9.6			
<i>LC50-96 Hour - fish [mg/l]</i>	: > 100			
<i>48 H-CE50 - Daphnia magna [mg/l]</i>	: > 100			
<i>IC50 72h Algae [mg/l]</i>	: > 100			
<u>Solvent</u>	: > 30 %	----- / ----- / -----	N Xn	10-37-51/53-65-66-67

4 FIRST AID MEASURES

First aid measures

- Inhalation : Assure fresh air breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.
- Eye contact : Flush with lukewarm water for 15 minutes. Obtain emergency medical attention if pain, blinking, tears or redness persist.
- Ingestion : DO NOT INDUCE VOMITING. If swallowed, rinse mouth with water (only if the person is conscious). Obtain emergency medical attention.

5 FIRE-FIGHTING MEASURES

- Flammable class : This product is flammable.
- Prevention : Keep away from sources of ignition. No naked lights. No smoking.
- Extinguishing media : Dry chemical. Water. Carbon dioxide. Foam.
- Surrounding fires : Use water spray or fog for cooling exposed containers.
- Specific hazards : May form flammable vapour-air mixture. Carbon monoxide. Halogens. Carbon dioxide. Nitrogen oxides.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
- Personal precautions : **The driver shall not attempt to deal with any fire of the load.**

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions : No smoking. Keep public away from danger area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
- 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. Dilute residues and flush.

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7 HANDLING AND STORAGE

General	: Keep away from sources of ignition - No Smoking. Do not breathe vapours.
Precautions in handling and storage	: Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
Technical protective measures	: Use grounded electrical/mechanical equipment.
Storage	: Keep in fireproof place. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.
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	    
- Respiratory protection	: Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection	: Wear suitable gloves resistant to chemical penetration.
- Skin protection	: If skin contact or contamination of clothing is likely, protective clothing should be worn.
- Eye protection	: Chemical goggles or face shield with safety glasses.
- Ingestion	: When using, do not eat, drink or smoke.
Industrial hygiene	: Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Occupational Exposure Limits	: Hydrocarbon-solvents (Aromatic) : TLV© -TWA [mg/m ³] : 100 - 150 Hydrocarbon-solvents (Aromatic) : TLV© -TWA [ppm] : 19 - 25

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C	: Liquid.
Colour	: Brown.
Odour	: Aromatic.
pH value in distilled water	: 2.67 (1%, 20°C).
Density	: 1.033
Viscosity	: 3.36 mm ² /s, 40°C.
Surface tension [mN/m]	: 32.6, 25°C.
Flash point [°C]	: >41

10 STABILITY AND REACTIVITY

Hazardous decomposition products	: According to process conditions, hazardous decomposition products may be generated. Thermal decomposition generates : Carbon monoxide. Halogens. Carbon dioxide. Nitrogen oxides.
Hazardous reactions	: May release flammable gases.
Hazardous properties	: In use, may form flammable/explosive vapour-air mixture.
Conditions to avoid	: Open flame. Sparks. Overheating.

11 TOXICOLOGICAL INFORMATION

Acute toxicity	: Irritating to eyes, respiratory system and skin.
Rat oral LD50 [mg/kg]	: No data available.
On ingredients	: See Heading : Information on ingredients.

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12 ECOLOGICAL INFORMATION

- Ecological effects information : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- LC50-96 Hour - fish [mg/l] : No data available.
- On ingredients : See Heading : Information on ingredients.

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 : UN3295 HYDROCARBONS, LIQUID,N.O.S. (Hydrocarbon-solvents (Aromatic)), 3, III
- UN No. : 3295
- H.I. nr : 30
- ADR Class : Class : 3
- ADR/RID Packing group : Group : III
- ADR/RID : C1E : Passage forbidden through tunnels of category C and D when carried in tanks. Passage forbidden through tunnels of category E.
- Labelling ADR : 3
Hazard Aquatic Environment

*** Sea transport**

- Proper shipping name : UN3295 HYDROCARBONS, LIQUID,N.O.S. (Hydrocarbon-solvents (Aromatic)), 3, III
- IMO-IMDG code : Class : 3
- IMO Packing group : Group : III
- IMDG-Marine pollution : YES
- Hazard Label(s)

*** Air transport**

- Proper shipping name : UN3295 HYDROCARBONS, LIQUID,N.O.S. (Hydrocarbon-solvents (Aromatic)), 3, III
- IATA - Class or division : Class : 3
- IATA Packing group : Group : III
- IATA Packing instruction : Packaging instructions passenger: 309 / 60 L
Packaging instructions cargo : 310 / 220 L
- Hazard Label(s)





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15 REGULATORY INFORMATION

- Symbol(s) : Xn: Harmful.
N : Dangerous for the environment
- R Phrase(s) : R10 : Flammable.
R22 : Harmful if swallowed.
R36/37/38 : Irritating to eyes, respiratory system 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.
R67 : Vapours may cause drowsiness and dizziness.
- 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.
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.
S46 : If swallowed seek medical advice immediately and show this container or label.
S51 : Use only in well-ventilated areas.
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 1907/2006.

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