



SAFETY DATA SHEET

Page : 1

Revised edition no : 4

Date : 30/6/2009

Supersedes : 11/12/2008

TRIGGER

CA701530

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 : Chlorpyrifos-ethyl 480 g/L EC.
Trade name : TRIGGER
Use : Agriculture.
Type of product : Insecticide.
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 by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. Harmful : may cause lung damage if swallowed.
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 : Cough. Shortness of breath. Breathing difficulties. Headache.
- Skin contact : Redness, pain. May cause immediate skin irritation and blistering.
- Eye contact : Blurred vision. Tears. Burning sensation. Redness, pain. Eye irritant upon direct contact. Risk of damage to eyes.
- Ingestion : Abdominal pain, nausea. Swallowing a small quantity of this material will result in serious health hazard.

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)
Chlorpyrifos	: 460 to 495 g/L	2921-88-2 / 220-864-4 / 015-084-00-4	T N	25-50/53
Rat oral LD50 [mg/kg]	: 66 to 195			
Percutaneous (rat) LD50 [mg/kg]	: 1250 to 2000			
Rat inhalation LC50 [mg/l/4h]	: > 1			
96 H-LC50 - Rainbow trout [ppm]	: 0.002			
48 H-CE50 - Daphnia magna [mg/l]	: 0.0001			
IC50 72h Algae [mg/l]	: 1.2			
Solvent	: > 450 g/L	----- / ----- / -----	N Xn	10-37-51/53-65-66-67

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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 develops.
- Eye contact : Check for and remove any contact lenses. 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 : DO NOT INDUCE VOMITING. If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice (show the label where possible).

5 FIRE-FIGHTING MEASURES

- Flammable class : This product is flammable.
- Prevention : Keep away from sources of ignition. 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. Sulphur dioxide. Nitrogen oxides. Phosphorus oxides. Phosgene. Hydrogen chloride.
- 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.

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.

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 : Gloves.
- Skin protection : If skin contact or contamination of clothing is likely, protective clothing should be worn.

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

- 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C : Liquid.
- Colour : Yellow.
- Odour : Aromatic.
- pH value : 6.2
- Density : 1.074
- Viscosity : 1.968 cSt
- Flash point [°C] : 46
- Auto-ignition temperature [°C] : 476

10 STABILITY AND REACTIVITY

- Stability and reactivity : Stable.
- Hazardous decomposition products : According to process conditions, hazardous decomposition products may be generated. Thermal decomposition generates : Carbon monoxide. Sulphur dioxide. Nitrogen oxides. Phosphorus oxides. Phosgene. Hydrogen chloride.
- Hazardous reactions : May release flammable gases.
- Materials to avoid : Strong oxidizers.
- Conditions to avoid : Open flame. Sparks. Overheating.

11 TOXICOLOGICAL INFORMATION

- Acute toxicity : Irritating to eyes, respiratory system and skin.
- Rat oral LD50 [mg/kg] : 291.5
- Dermal LD50 [mg/kg] : 2383
- Rat inhalation LC50 [mg/l/4h] : 2.41
- On ingredients : See Heading : Information on ingredients.

12 ECOLOGICAL INFORMATION

- Ecological effects information : R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- LC50-96 Hour - fish [mg/l] : 0.035
- 48 Hour-EC50 - Daphnia magna [mg/l] : 0.0003
- 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.

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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 : UN3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Chlorpyrifos (ISO), 48%, Hydrocarbon-solvents (Aromatic)), 6.1 (3), III

- UN No. : 3017

- H.I. nr : 63

- ADR Class : Class : 6.1

- ADR/RID Packing group : Group : III

- ADR/RID : D1E : Passage forbidden through tunnels of category D when carried in bulk or in tanks. Passage forbidden through tunnels of category E.

- Labelling ADR : 6.1
3
Hazard Aquatic Environment



* Sea transport

- Proper shipping name : UN3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Chlorpyrifos (ISO), 48%, Hydrocarbon-solvents (Aromatic)), 6.1 (3), III

- IMO-IMDG code : Class : 6.1

- IMO Packing group : Group : III

- IMDG-Marine pollution : YES

- Hazard Label(s)



* Air transport

- Proper shipping name : UN3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Chlorpyrifos (ISO), 48%, Hydrocarbon-solvents (Aromatic)), 6.1 (3), III

- IATA - Class or division : Class : 6.1

- IATA Packing group : Group : III

- IATA Packing instruction : Packaging instructions passenger: 611 / 60 L
Packaging instructions cargo : 618 / 220 L

- Hazard Label(s)



15 REGULATORY INFORMATION

- Symbol(s) : Xn: Harmful.
N : Dangerous for the environment

- R Phrase(s) : R10 : Flammable.
R20/22 : Harmful by inhalation and 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.

- 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.



SAFETY DATA SHEET

Page : 5

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15 REGULATORY INFORMATION (continued)

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

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S35 : This material and its container must be disposed of in a safe way.

S36/37 : Wear suitable protective clothing and gloves.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

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

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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