

MATERIAL SAFETY DATA SHEET

I. Identification of the substance/preparation and of the company/undertaking

Product name: CHLORPYRIFOS 500G/l EC

Usage: Insecticide

Supplier: NANJING PLATFORM AGROTECH CO., LTD

Address: OFFICE 1908, LONGTAI INT'L MANSION, NO.198 ZHONGSHANDONG ROAD, NANJING, P.R.CHINA 210002

Tel: 0086-25-84679472

Fax: 0086-25-83706556

Issued date: 2020/01/08

II. COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT USE: An insecticide for the control of various pests in turf, subterranean termites and domestic insect pests as specified on label.

PHYSICAL DESCRIPTION/PROPERTIES:

Appearance	Light yellow to brown liquid
Flash point (OC)	60°C (CC)
Boiling point (OC)	> 150°C
Flammability limits (%)	0.6 - 7.0% V/V for solvent
Vapour pressure (___)	Not determined for formulation.
Solubility In water (G/L)	Disperses as an emulsion. (chlorpyrifos has low water solubility 0.4 MG/L @ 23°C).

.INGREDIENTS:

Chemical entity	Chlorpyrifos
Cas no	2921-88-2
Proportion	500 g/l
Emulsifiers and inerts	Up to 100%

III. HAZARDS IDENTIFICATION

EYE: The concentrate will cause moderate irritation and possible injury.

SKIN: Prolonged or repeated exposure may cause defatting of the skin which could lead to secondary dermatitis. The rate of absorption of chlorpyrifos through the skin is low, hence the product is only moderately toxic by this route. Chlorpyrifos is not considered a skin sensitising agent.

INGESTION: The concentrate is considered very toxic if swallowed.

INHALATION: Inhalation of chlorpyrifos from the concentrate is unlikely to present a

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problem due to its low vapour pressure. However, the spray can present a toxic problem if inhaled in relatively large quantities. Avoid inhaling mists. Inhalation of spray can lead to cholinesterase inhibition, manifesting as dizziness, headaches, nausea, salivation, vomiting, twitching or spasms.

IV. FIRST - AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

EYE: Rinse immediately with plenty of water for at least 15 minutes, holding eye open and taking care to rinse under eyelids as well. If irritation persists seek medical attention.

SKIN: Wash off skin immediately with soap and plenty of water. Remove all contaminated clothing and shoes. If poisoning occurs seek immediate medical attention and if more than 15 minutes from medical attention, give one Atropine tablet (0.5mg) every 5 minutes until dryness of mouth occurs.

INGESTION: Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.

INHALATION: Move affected person to fresh air and keep until recovered. If poisoning occurs seek immediate medical attention.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Atropine by ingestion or Atrovent / Ipratropium by airway puff are preferred antidotes. Oximes such as 2 PAM/protopam may be therapeutic if used early, but only if used in conjunction with atropine. Do not give adrenergic amines, aminophylline, succinylcholine, phenothiazines or reserpine alkaloids or oils. Treat pulmonary pneumonitis and bronchopneumonia secondary to pulmonary oedema. This product contains a petroleum based solvent and so the benefits of inducing vomiting must be balanced against the possibility of chemical pneumonitis if inhaled. If lavage is performed, endotracheal or oesophagoscopy control is advised.

V. FIRE FIGHTING MEASURES

Flash point 660C (Aromatic solvent)

Flammable limits 0.9 – 6.0 % for the solvent.

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, water fog.

FIRE AND EXPLOSION HAZARDS: Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

FIRE-FIGHTING EQUIPMENT: When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat goggles and self-contained breathing apparatus. All skin should be covered.

VI. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS:

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In case of spills it is important to take all steps necessary to:

Avoid eye and skin contact.

Avoid contamination of waterways.

Keep all bystanders away.

1. Wear full-length clothing and PVC gloves.
2. Reposition any leaking containers so as to minimise further leakage.
3. Dam and absorb spill with an absorbent material (e.g. sand or soil)
4. Shovel the absorbed spill into drums and top with hydrated lime.
5. Disposal of the absorbent material will depend on the extent of the spill.
6. Decontaminate spill area with hydrate lime scattered over the spill prior to rinsing off with water.

VII. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool dry place away from direct sunlight. Store away from food and food stuffs for animal or human consumption. Store in its original container well sealed.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

For chlorpyrifos; 0.2 mg/m³, TWA, skin.

For Aromatic hydrocarbon, the supplier recommends an occupational exposure limit of 100 ppm (TWA) as total hydrocarbon.

ENGINEERING CONTROLS: Natural ventilation only except in confined spaces where a local exhaust fan should be provided while handling the concentrate.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS: Eye washing and shower facilities available.

EYE / FACE PROTECTION: Face and eye protection should be worn. For help in selecting suitable equipment consult AS 1336 and AS/NZS 1337

SKIN PROTECTION: Wear chemical resistant PVC or nitrile gloves. Wear cotton overalls and washable cotton hat. Wear boots. For help in selecting suitable gloves consult AS 2161. For help in selecting suitable clothing consult AS 2919. For help in selecting boots consult AS/NZS 2210..

RESPIRATORY PROTECTION: Avoid inhaling spray mist. For help in selecting suitable equipment consult AS/NZS 1715.

APPLICATIONS AND ALL OTHER HANDLERS: After handling this product always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale amber liquid.

PH value: Neutral

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Odour:	Solvent odour
Solubility in water:	Forms emulsions
Specific gravity:	0.997
Boiling point:	1830C
Corrosivness:	Not Corrosive

X. STABILITY AND REACTIVITY

STABILITY: This product is unlikely to spontaneously decompose.

INCOMPATIBILITY: Avoid materials like Strong Acids, strong bases, and strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Oxides of sulfur. Oxides of phosphorus. Hydrogen chloride gas, chlorides and in some circumstances, phosgene. Water.

HAZARDOUS POLYMERIZATION: This product is unlikely to spontaneously polymerise.

XI. TOXICOLOGICAL INFORMATION

The Australian Acceptable Daily Intake (ADI) of chlorpyrifos for humans is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.03 mg/kg/day, the level determined to show no effect during long term exposure for the most sensitive indicators and the most sensitive species.

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA:

Chlorpyrifos is moderately persistent in soils. The half-life of chlorpyrifos in soil is usually between 60 to 120 days. Chlorpyrifos may be toxic to some plants, such as lettuce. Residuals remain on plant surfaces for approximately 10 to 14 days. Data indicate that this insecticide and its soil metabolites can accumulate in certain crops.

ECOTOXICOLOGY:

Toxicity to mammals	(for similar product composition)
Acute Oral LD50 (rats)	483mg/kg
Acute Percutaneous LD50 (rats)	409mg/kg

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of empty, used containers by;

A. Triple rinsing with water. Add the rinsings to the tank mix or dispose of rinsate in a disposal pit away from desirable plants and roots, and watercourses. On-site disposal of undiluted product is unacceptable.

B. Breaking, crushing or puncturing the containers to prevent reuse.

C. Disposing of in a local authority, bury landfill site that does not burn its refuse. If there is

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no local authority landfill readily available in your area, bury the containers under at least 50cm of soil at a licensed/approved disposal site.
DO NOT burn empty containers or product.

XIV. Transport information**XV. IMDG**

UN No.: 3017
Dangerous Goods Class: 6.1+3

Packaging Group: III
Proper shipping name: Flammable, Liquid, Toxic, N, O, S

XVI. Regulatory information

This product is classified according to China regulations.

XVII. OTHER INFORMATION

PLEASE READ ALL LABELS CAREFULLY BEFORE USING PRODUCT.

THE INFORMATION ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANT ABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO WAY SHALL THE COMPANY BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

FOR ADDITIONAL NON-EMERGENCY INFORMATION: CALL CUSTOMER SERVICES
CALL 0086 25 83706996