

**MATERIAL SAFETY DATA SHEET**

ARBAN TC : Chlorpyriphos 20% E.C.

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND SUPPLIER**

**PRODUCT NAME** : Chlorpyriphos 20% E.C.  
**CHEMICAL GROUP** : Organo phosphorous group  
**RECOMMEDED USE** : A liquid insecticide for agricultural use  
**FORMULATION** : Emulsifiable Concentrate  
**CORPORATE ADDRESS** : Arbuda Agrochemicals Pvt. Ltd.  
1104, Ruby Crescent Business Boulevard,  
Ashok Chakravarti Road, Kandivali-East, Mumbai-400101,  
Maharashtra, India Customer Care No- +91 9076907642  
Email - [info@arbudaagrochemicals.com](mailto:info@arbudaagrochemicals.com)  
**MANUFACTURER ADDRESS** : Arbuda Agrochemicals Pvt Ltd  
Plot No-281-283, GIDC, Taluka -Talod District-  
Sabarkantha, Gujarat-383215

**2. COMPOSITION / INFORMATION ON INGRADIENTS****Components contributing to hazard:**

**Ingredient** : Chlorpyrifos EC  
**CAS NO** : 2921-88-2  
**Percentage** : 20%  
Solvent plus inert Ingredient

**3. HAZARD IDENTIFICATION****Emergency Overview**

Mild irritant to skin.

Mild Irritant to eyes.

Unlikely to present any acute hazard in inhalation in normal use.

Hazardous to marine and aquatic life.

**4. FIRST AID AND MEASURES**

<b>SKIN CONTACT</b>	Remove all contaminated clothes and shoes. Wash off immediately with soap and plenty of water (15-20 minutes). Get medical attention immediately.
<b>EYES CONTACT</b>	Flush eyes with tap water for at least 15 min. Consult an ophthalmologist.
<b>INHALATION</b>	Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.
<b>INGESTION</b>	Drink 1 or 2 glasses of water. Induce vomiting by touching back of the throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person. Consult a physician.
<b>SYMPTOMS</b>	Burning sensations on the skin, irritation of the mucous membranes, coughing and sneezing maybe experienced.
<b>OTHER INFORMATION</b>	Treat symptomatically and supportively.

**5. FIRE FIGHTING MEASURES**

<b>EXTINGUISHING MEDIA</b>	Dry chemical, carbon dioxide, halon, water spray or standard foam.
<b>UNSUITABLE EXTINGUISHING</b>	High-pressure water jet media Special exposure Hazards. Do not release chemically contaminated Water into drains, soil and Surface waters.
<b>SPECIAL PROTECTIVE</b>	As for all fires involving chemicals: chemical protection suit, suitable Gloves equipment for fire-fighters and boots, and self-contained Breathing apparatus

**6. ACCIDENTAL RELEASE MEASURES**

<b>PERSONAL PRECAUTIONS</b>	:	Use personal protective equipment.
<b>METHODS FOR CLEANING UP</b>	:	Do not touch spilled material. Stop further Spillage if you can do it without risk. For small spills, sweep and collect with sand and other absorbent material and place into containers for later disposal. Move containers from the Spillage area. For larger spills, dike far ahead of spill for later disposal. Keep uninterested People away. Isolate hazard area and prevent Entry of unwanted persons. Ventilate closed space.
<b>ENVIRONMENTAL PRECAUTIONS :</b>		Prevent contamination of water.

**7. HANDLING AND STORAGE**

- HANDLING PRECAUTIONS** : Do not eat, drink or smoke when handling; wash hands before eating, drinking or smoking.
- STORAGE** : Store in locked, well-ventilated storeroom, away from children and unauthorized personnel, and food and animal feed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION.**

- VENTILATION** : Provide local exhaust or general dilution ventilation.
- EXPOSURE CONTROL LIMITS** : -
- RESPIRATORY PROTECTION** : Wear a suitable mask.
- HAND PROTECTION** : Wear rubber or plastic gloves.
- EYE PROTECTION** : Wear splash-proof or dust-resistant safety goggles.
- SKIN AND BODY PROTECTION** : Wear overalls and closed footwear.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- APPEARANCE** : liquid
- COLOUR** : Pale yellow to light brown
- RELATIVE DENSITY ( WATER =1)** : 0.96 gm/cm<sup>3</sup> ( approx)
- RELATIVE VAPOUR PRESSURE** : >1
- BOILING POINT/RANGE** : >150°C
- WATER SOLUBILITY** : Emulsifiable
- FLASHPOINT** : >24°C

**10. STABILITY AND REACTIVITY**

- STABILITY** : Stable under normal temperatures and pressure.
- CONDITIONS TO AVOID** : No special precautions other than good housekeeping.
- MATERIAL TO AVOID** : Strong-oxidizing agents.
- HAZARDOUS** : Thermal decomposition products may emit
- DECOMPOSITION** : toxic fumes of hydrogen chloride and oxides of carbon.

**11. ECOLOGICAL INFORMATION**

- MLD CHICKEN** : No proprietary data available.
- MLD PIGEON** : 65 -110mg/kg BW with NOEL = 13 mg/kg.
- TOXICITY TO FISH 96 HRS** : LC50 0.026 mg/lit for rainbow trout.
- TOXICITY TO BEE** : Contact LD50 > 0.23 µg/bee

## 12. DISPOSAL CONSIDERATIONS

- PESTICIDE DISPOSAL** : Burn in high temperature incinerator with effluent scrubbing or bury in a specially allocated landfill. Always dispose of in accordance with local regulations.
- CONTAINER DISPOSAL** : Contaminated packaging material should be treated as product.

## 13. TOXICOLOGICAL INFORMATION

- ACUTE LD50 ORAL ALBINO RATS** : 207 to 370 mg/kg B.W
- ACUTE LD50 DERMAL ALBINO RABBITS** : >2000 mg/kg B.W
- ACUTE LD50 INHALATION RATS (4 HRS)** : >2.41 mg/L(normal concentration) four hour exposure.
- EYE IRRITATION** : Mild irritant.
- SKIN SENSITIZATION** : Non skin sensitizer
- CARCINOGEN STATUS** : Non carcinogenic
- WHO CLASS** : Product is unlikely to present any acute hazards in normal use.
- EPA TOXICITY CLASS** : Not applicable
- ADI (MAN MG/KG)** : Data not available

## 14. TRANSPORT INFORMATION

- UN NUMBER** : 3017
- IMDG CLASS** : 6
- PACKAGING GROUP** : III
- PROPER SHIPPING NAME** : Organophosphorous pesticide, liquid, toxic, flammable
- SUBSIDIARY RISK** : Not "Dangerous goods" for transport by rail or Road

**15. REGULATORY INFORMATION**

<b>HAZARD SYMBOL</b>	:	Dangerous for the environment symbol (N)
<b>RISK PHRASES</b>	:	R36 / 38 -Moderately Irritating to eyes and skin
<b>SAFETY PHRASES</b>	:	S 36 / 37 / 39 – Wear suitable protective clothing, gloves and eye/face protection. S 57 – Use appropriate containment to avoid environmental contamination.

**16. OTHER INFORMATION**

<b>MSDS PREPARATION DATE</b>	<b>01/03/2024</b>
<b>REVISION DATE</b>	<b>28/02/2026</b>

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment or work risk as required by other health and Safety legislation.