

MATERIAL SAFETY DATA SHEET

KNOCKDOWN 50 EC Insecticide

MSDS REF. No: HDP-18/TR1B

Date Approved: March, 2018

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This document has been prepared to meet the requirements of the various technical Committees and for other regulatory requirements. The information contained herein is for the concentrate as packaged, unless otherwise noted.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Knockdown 50 EC
PRPRODUCT CODE:	HD-6
ACTIVE INGREDIENTS (S)	Dichlorvos
CHEMICALFAMILY:	OP INSECTICIDE

MANUFACTURER

EMERGENCY TELEPHONE NUMBERS

Tara Imperial Industries Pvt Ltd, Pakistan 042-111-223-388
For leak, spill, or accident emergencies, call at above mentioned numbers

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Clear to Yellow-brown liquid
- Highly combustible
- May support combustion at elevated temperatures
- Finely dispersed particles can form explosive mixtures in air
- Thermal decomposition and burning may form toxic by-products
- For large exposure or fire, wear personal protective equipments
- Sensations of cutaneous irritation
- Flammable
- Harmful if swallowed

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects which could occur if this material is not handled in the recommended manner. Effects from overexposure result from absorption through the skin or may result from inhaling it.

MEDICAL CONDITIONS AGGRAVATED: None presently known.

3. COMPOSITION

Chemical Name	w/v
Dichlorovos	50% w/v

4. FIRST AID MEASURES

EYES: May cause moderate eye irritation. Vapors may irritate eyes. Flush with plenty of water. Get medical attention if irritation occurs or persists.

SKIN: Take off contaminated cloths and shoes, short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation. Skin irritations may be treated with fatty creams and locally anesthetic ointments. Wash with plenty of soap and water.

INGESTION: make victim breathe fresh air. Loosen cloths of the victim. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Do not make the victim vomit.

SYSTEMETIC EFFECTS: Xylene, a minor component of this mixture, is reported to have caused hearing loss in laboratory animals upon inhalation of high concentrations: such effects have not been reported in humans.

CANCER INFORMATION: Not available.

TERATOLOGY (BIRTH EFFECTS): Not available.

Note to physicians: the decision of whether to induce vomiting or not should be made by an attending physician. danger from lung aspiration must be weighted against toxicity when considering emptying the stomach. treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT: 42-48 (closed cup)

Extinguishing media: foam, CO2 or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

FIRE/EXPLOSION HAZARDS: highly combustible. may support combustion at elevated temperatures. finely dispersed particles can form explosive mixtures in air. Stable until -10 C.

FIRE FIGHTING PROCEDURES: isolate fire area. evacuate downwind. wear full protective clothing and self-contained breathing apparatus. do not breathe smoke, gases or vapors generated.

6. ACCIDENTAL RELEASE MEASURES:

RELEASE NOTES: Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed accordingly. Keep unprotected persons and animals out of the area.

Keep material out of lakes, streams, ponds. large spills should be covered to prevent dispersal.

To clean and neutralize contained area, scrub area with a solution of detergent (e.g. commercial product such as supersoap, tide or other high pH detergents) and water. repeat if necessary to remove visible staining. Additional decontamination can be made by applying bleach to affected area. For further information on spill clean-up, call Tara Imperial Industries, Pvt Ltd, Pakistan.

7. HANDLING AND STORAGE:

HANDLING AND STORAGE: store in a cool, dry, well-ventilated place. Do not use or store near heat, open flames or hot surfaces. Store in original containers only. Keep out of the reach of the children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: No open flames. Prevent deposition of dust .use closed system; consider use of explosion-proof electrical equipment and lightning. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: for protection against exposure. Wear chemical protective goggles or a face shield.

RESPIRATORY: For protection against exposures wear, as a minimum, properly fitted half-face or full face air purifying respirator, this is approved for pesticides. (U.S .NIOSH/MSHA, EU CEN or comparable certification organization).

Respirator use and selection must be based on airborne concentration.

PROTECTIVE CLOTHING: Depending upon concentration encountered, wear coveralls or long-sleeved uniform and headcovering. For larger exposure as in the case of spills, wear full body cover barrier suit, such as a PVC SUIT. Leather items –such as shoes, belts and watch bands-that become contaminated should be removed or destroyed. Launder all work clothing before use (separately from household laundry)

GLOVES: wear chemical protective gloves mad elf material such as rubber or neoprene. Thoroughly wash the outside of gloves soap and water prior to removal. Inspect regularly for leaks.

WORK HYGIENIC PRATICLES: clean water should be available washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum, or using tobacco. Shower at the end of the workday.

9. PHYSICAL AND CHIMICAL PROPERTITIES:

ODOR: GASOLINE ODOR

pH: Variable

APPEARANCE: Light to dark yellowish/brownish liquid

VAPOR PRESSURE: NA

SOLUBILITY IN WATER: Emulsifiable

RELATIVE DENSITY: NA

FLASH POINT: 42-48C

AUTOFLAMIABILITY: NA

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Excessive heat and direct exposure.

STABILITY:

HAZARDOUS DECOMPOSITION PRODUCTS: Fewer than five conditions, may form hazardous components.

12. ECOLOGICAL INFORMATION:

Dichlorvos is toxic to fish, aquatic organisms, bees and avian.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Open dumping or bumping of this material or its packing is prohibited. if spilled material cannot be disposal of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws,rules,standards,and regulations.however,because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to proposal.

EMPTY CONTAINER: completely empty package into application equipment then dispose of empty package in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION:

US DEPARTMENT OF TRANSPORTATION (DOT)

ADDITIONAL INFORMATION: keep protected from direct sunlight

15. OTHER INFORMATION

REVISION SUMMARY:

Nil

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