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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

PRODUCT NAME: Diazinon 800

OTHER NAME: None allocated
MANUFACTURERS CODE: 28292 (5 L), 28307 (20L)
PROPER SHIPPING NAME (ADG Code): Organophosphorus Pesticide, Liquid, Toxic, (Diazinon)
UN NUMBER: 3018
DANGEROUS GOODS CLASS: 6.1 (Toxic)
SUBSIDIARY-RISK: None allocated
PACKAGING GROUP: III
HAZCHEM CODE: 2X
POISONS SCHEDULE: S6 Poison
USE: A general purpose pesticide for the control of cockroaches, spiders, fleas, silverfish, carpet beetles, flies, bedbugs, ants, maggots, mosquito larvae & skin & hide beetles as per the label directions.

PHYSICAL DESCRIPTION / PROPERTIES

APPEARANCE: Amber colour transparent liquid
MELTING POINT: Not applicable
BOILING POINT: approx 178 °C (solvent)
VAPOUR PRESSURE: 0.074 kPa at 20° C
DENSITY: 1.054
FLASH POINT: <62 deg C
FLAMMABILITY LIMITS: 0.6 - 7.0 (volume % in air)
SOLUBILITY IN WATER: Emulsifies in water
CORROSIVENESS: Not corrosive
OTHER PROPERTIES: Not available

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Diazinon	333-41-5	800g/L
Hydrocarbon solvent	64742-94-5	78g/L
Other inerts determined to be non-hazardous	-	To 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia): Xn - Harmful

RISK PHRASES: R22 – Harmful if swallowed

SAFETY PHRASES: S24 – Avoid contact with skin.
S25 – Avoid contact with eyes.

GENERAL:

Excessive exposure may produce organophosphorus type cholinesterase inhibition. Symptoms of poisoning include headache, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhoea, sweating, blurred vision, salivation, tearing, chest tightness, excessive urination and convulsions.

ACUTE

SWALLOWED:

The acute oral toxicity is moderate to high. Ingestion of the concentrate may cause injury or death. If aspirated (concentrate enters lungs) may cause lung damage due to chemical pneumonia caused by petroleum like solvents. Oral LD₅₀ (rat) 350mg/kg (Diazinon).
Product LD₅₀ (rat) 416mg/kg (calculated).

EYE:

Will cause temporary moderate eye irritation.

SKIN:

The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions. Dermal LD₅₀ (rat) 2150mg/kg (diazinon).
Product LD₅₀ (rat) 2495mg/kg (calculated).

INHALED:

The acute inhalation toxicity is moderate. Excessive exposure to spray mist or concentrated vapour may be harmful in large amounts. Signs and symptoms of over-exposure may be eye and respiratory tract irritation and effects on the central nervous system including headache, dizziness and narcotic effects.

CHRONIC:

Continued exposure may cause adverse effects on red blood cells and brain cholinesterase levels. To date no evidence of carcinogenicity or mutagenicity exists. Some evidence of embryotoxicity and teratogenicity exists in animals. Diazinon does not accumulate in the body.

FIRST AID

GENERAL:

Consult a Poisons Information Centre or a Doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if patient is unconscious or convulsing.

SWALLOWED:

Induce vomiting, preferably using Ipecac Syrup APF and give one atropine tablet every 15 minutes until dryness of mouth occurs. Get to a Doctor or hospital quickly.

EYE:

Hold eyelids open and flood eye thoroughly with water for at least 15 minutes. See a doctor.

SKIN:

Remove contaminated clothing and wash skin thoroughly with soap and water for at least 15 minutes. Do not scrub the skin as skin abrasion will increase chemical absorption. If symptoms of poisoning occur, give atropine tablets every 15 minutes until dryness of mouth occurs. Get to a Doctor or hospital quickly.

INHALED:

Remove from contaminated area to fresh air. If breathing is difficult give oxygen and if necessary, artificial respiration. If symptoms of poisoning occur give atropine every fifteen minutes until dryness of the mouth occurs. Get to a Doctor or hospital quickly.

FIRST AID FACILITIES:

Eyewash, safety shower, Ipecac syrup, atropine tablets, soap.

ADVICE TO DOCTOR:

Diazinon is a cholinesterase inhibitor. Atropine is the antidote.

David Grays Diazinon 800 contains petroleum-like solvents and the benefits of inducing vomiting must be weighed against the possibility of chemical pneumonitis.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

Diazinon 0.1mg/m³

Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five day working week.

ENGINEERING CONTROLS:

The product concentrate should be handled in an area with sufficient ventilation. Avoid breathing the vapour of concentrate.

PERSONAL PROTECTION:

When opening the container, preparing the mix and using the spray wear full body overalls buttoned to the neck and wrists, washable hat, chemical resistant PVC elbow length gloves, and safety glasses or a face shield .

The manufacturer also recommends the use of a half face respirator with combination organic vapour/mist cartridge to avoid breathing spray drift.

After use and before eating, drinking or smoking, wash hands arms and face thoroughly with soap and water. Wash gloves, respirator, hat, overalls and faceshield or glasses after use.

FLAMMABILITY:

Product is not flammable but will burn if involved in a fire.

SAFE HANDLING INFORMATION

STORAGE

Store in the original container in a cool, dry place out of the reach of children. Do not store in direct sunlight.

TRANSPORT

Product is classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

CORRECT SHIPPING NAME: Organophosphorus Pesticide, Liquid, Toxic, (Diazinon)

UN NUMBER: 3018

DANGEROUS GOODS CLASS: 6.1 Toxic

SUB-CLASS: None allocated

PACKAGING GROUP: III

SPILLAGE

Wear appropriate clothing while cleaning up spill (see Personal Protection). Apply absorbent material such as sand, earth or attapulgite to contain the spill. Sweep up the material when absorption is complete. Wash contaminated surfaces with mild bleach solution (sodium hypochlorite) which will neutralise the diazinon.

DISPOSAL

Disposal of contaminated material must be done in accordance with State and/or Local regulations. Triple rinse containers with water and add rinsings to tank mix. Destroy empty containers by breaking, crushing or puncturing them. Dispose of the empty containers at a local authority landfill. Do not burn empty containers or product. Do not allow chemical containers, spray or washings to contaminate drains, sewers, streams, ponds or any waterway.

FIRE/EXPLOSION HAZARD

Hazchem: 2X Product is not flammable but will burn if involved in a fire.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of Nitrogen

FIRE FIGHTING EQUIPMENT:

Foam, carbon dioxide (CO₂), or dry chemical extinguishers may be used. Run-off must be contained.

OTHER INFORMATION

ECOTOXICITY DATA:

Toxic to fish, birds, bees and other animals.
Diazinon does not bioaccumulate in animal systems

ENVIRONMENTAL FATE:

Diazinon is resistant to hydrolysis and oxidation under normal conditions. It has a residual half life in soil of approximately 185 days at a pH of 7.4 but is rapidly degraded in strong acidic or alkaline soil conditions. Other factors such as sunlight, soil type and climatic conditions will affect rate of degradation. In water, diazinon is slowly degraded by hydrolysis.

CONTACT POINT

TITLE: Technical Department

TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED:

DATE:

NOTICE:

This Material Safety Data Sheet has been developed according to the Worksafe Australia/NOHSC Codes of Practice.

The information contained herein is given in good faith however and is considered to be accurate at the specified issue date. No warranty expressed or implied is made to the accuracy or completeness of the data and information contained herein.

No person, other than an authorised representative of David Gray & Company Pty Ltd, has the authority to make any alterations to this MSDS.

Contact David Gray & Co Pty Limited for further product information on (08) 9337 4933 during normal business hours.