

MATERIAL SAFETY DATA SHEET

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n-virol

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1. PRODUCT IDENTIFICATION

Trade Name	N-Virol Woodworm Killer
Description	Aqueous blend of non-ionic surfactants and insecticide

2. HAZARDOUS INGREDIENTS

Component	CAS No	Classification	Concentration
Permethrin	52645-53-1	Xn:R20/22 R43 N: R50,53	5
Alcohol ethoxylate	n/a	Xn: R22 Xi: R41	<20

3. HAZARD IDENTIFICATION

Health	IRRITATING TO EYES MAY CAUSE SENSITISATION BY SKIN CONTACT
Environmental	VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

4. FIRST AID MEASURES

Inhalation	If inhaled, provide fresh air, warmth, rest and if necessary, seek medical advice.
Skin contact	Immediately wash contaminated skin with soap and large quantities of water. If necessary seek medical advice.
Eye contact	Immediately wash eyes thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.
Ingestion	Allow the patient to vomit on his own accord. Give copious water to drink; if necessary seek medical advice.

5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT IS NOT FLAMMABLE.
Extinguishing media	To suit local surroundings (e.g. water spray, carbon dioxide, foam or chemical powder).
Special exposure hazards	The thermal decomposition products released should be considered toxic if inhaled.
Protective equipment	Wear self-contained breathing apparatus.
Further information	Avoid run-off water entering the drains (e.g. use barriers).

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Adhere to personal protective measures. Take up with absorbent material, e.g. sand, sawdust into tightly closable containers. Label container and dispose of as described.
Environmental considerations	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

7. HANDLING & STORAGE

Advice on safe handling	Handle in accordance with good hygiene and safety practice.
Storage conditions	Ensure adequate ventilation of the storage area. Keep containers tightly closed and dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls	There are no occupational exposure limit values available.
Engineering controls	Ensure adequate ventilation of working area.
Personal protection	Observe normal standards for handling chemicals. It is recommended that those with a medical history of sensitisation should not handle this product. Avoid contact with skin and eyes. Wash hands before breaks and after work. Wear protective equipment appropriate to the task (see below).
Eye protection	Safety goggles (e.g. EN 166)
Skin protection	Butyl rubber gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Respiratory protection	Respirator if ventilation is judged to be insufficient.
Other protection	Protective overalls.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form	Clear mobile liquid
Colour	Pale amber liquid
Odour	Characteristic
pH	6 - 8
Boiling pt /range	From 100 °C
Melting pt /range	- °C
Flash point	- °C
Autoflammability	- °C
Water solubility	Fully miscible.

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions of handling
Material to avoid	The product is incompatible with strong acids and oxidising materials.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 rat (oral) > 5000 mg/kg Data for BDGE
Dermal compatibility	No data available
Mucous membrane compatibility	No data available

12. ECOLOGICAL INFORMATION

Acute toxicity	LC50 Fish (various species) 1.1 - 8.5 ppm Data for permethrin (96hours) EC50 Daphnia magna 0.6 ppm Data for permethrin
Degradability	No data available
Further information	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

13. DISPOSAL CONSIDERATIONS

Advice on disposal	In accordance with national and local authority regulations, e.g. special waste or incineration.
Contaminated packaging	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

UN No.	3082
Packing Group	III
IMDG code	9/3082/III
RID / ADR	9, III
Marine pollutant	The product SHOULD BE marked as a marine pollutant
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (m-PHENOXYBENZYL-3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPAN- ECARBOXYLATE)
Emergency action code	2X

15. REGULATORY INFORMATION

Classification & labelling	This product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP3.1] Contains m-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylate. IRRITANT DANGEROUS FOR THE ENVIRONMENT
Risk phrases	R36 IRRITATING TO EYES R43 MAY CAUSE SENSITISATION BY SKIN CONTACT R50/53 VERY TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
Safety phrases	S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. S36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION. S60 THIS MATERIAL AND/OR ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.

16. OTHER INFORMATION

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties and does not establish a legally valid contractual relationship.