

Material Safety Data Sheet

Not Dangerous Goods by Road & Rail, by Air nor by Sea.
Not a Hazardous Substance according to the Criteria of the Australian NOHSC.

Escar-Go

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION

Product Names: Escar-Go

Other Names:

Product Code(s):

USE: Ready to Use Surface Barrier Snail & Slug Repellent

COMPANY DETAILS:

Kendon Chemical & MNFG. Co. Pty Ltd

A.B.N. 27 004 281 967

8-10 Abbot Street

Fairfield, Victoria 3078

Phone: 03 9497 2822

Fax: 03 9499 7225

Emergency Telephone No: **Business Hrs** **03 9497 2822**
After Hrs **0418-530-461 (General Manager)**
0409-577-174 (Technical Manager)

2. HAZARD IDENTIFICATION

Emergency Overview: Green, water based solution with an acrid acetic acid odour. May cause a localised environmental hazard due to the <1% Copper Silicate salt and <1% Acetic Acid.

Dangerous Goods Information:

Not Dangerous Goods by Road & Rail, by Air, nor by Sea.

Hazardous Substances Information:

Not a Hazardous Substance according to the Criteria of the Australian NOHSC.

Poison Schedule Not Applicable **Signal Word** Not Applicable

Acute Health Effects

Swallowed Slightly harmful if swallowed. May irritate the mouth and throat.

Eye May cause eye irritation.

Skin May cause skin irritation.

Inhaled May cause respiratory irritation from inhalation of spray mists.

Chronic Health Effects

Continued poor handling practice may cause skin irritation and dermatitis.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
Copper Silicate	<1%	23739-45-9 *
Acetic Acid	<1%	64-19-7
Water	>60	7732-18-5
Other ingredients determined not to be hazardous	to 100%	

* An alternative CAS No. for Copper Silicate is 1344-72-5. Neither are on the NICNAS AICS.

4. FIRST AID MEASURES

Swallowed:	If product enters the mouth, thoroughly wash mouth with water, then give some water to drink. Do not induce vomiting. Contact a doctor or Poisons Information Centre ph: 131-126.
Eyes:	If this product comes into contact with eyes, hold open and wash with running water. Ensure irrigation under eyelids by occasionally lifting them. Seek medical attention.
Skin:	If this product comes into contact with skin, wash skin with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.
Inhaled:	If mists or vapours are inhaled, remove to fresh air. Keep at rest until fully recovered. Seek medical attention. If not breathing, apply artificial respiration, but only under medical supervision.
First-Aid Facilities:	Eye wash and safety shower, plus normal washroom facilities nearby.
Advice to Doctor:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Fire or Explosion Hazard:	Not combustible as this is a water based solution with <10% organic content.
Extinguishing Media:	Water spray; Water fog; Carbon dioxide; Dry Chemical; Foam, according to the surrounding materials.
Combustion Product Hazards:	None in particular, as the product does not burn. Mists will contain traces of Copper Silicate salt
Special Protective Precautions & Equipment:	Move containers from the fire area if it can be done without risk. No special procedures are required.

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6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Wear overalls, goggles and gloves. Contain spill. Prevent liquid from entering waterways or sewers. Collect recoverable product into labelled containers for use or recycling. If necessary use absorbent material such as sand or vermiculite. After spills, wash area, preventing run off from entering drains.

Very small spills may be washed away with excess water. Larger spills must be contained and recovered.

Containment & Cleanup: See Section 13 for Disposal Considerations

Special Issues: Dilute acidic copper solutions may act as a fungicide / pesticide and may cause localised problems for beneficial plants and insects.

7. HANDLING AND STORAGE

Handling: Keep containers closed at all times.

Storage: Store in a dry, well ventilated area. Store away from alkaline solutions. Store in closed, original containers, out of direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: Exposure standards determined by Safe Work Australia (formerly ASCC, formerly NOHSC).

Acetic Acid	10 ppm	25 mg/m ³ TWA	25 ppm	37 mg/m ³ STEL
Copper Mists (as Cu)		1 mg/m ³ TWA		

Design and Engineering Control Measures: Use good ventilation to maintain the air concentration below the exposure standards.

Personal Protective Equipment: Avoid skin, eye and inhalation contact.
The following personal protective equipment should be used:

Wear plastic or rubber gloves (elbow length).
Wear face shield or goggles.

Always wash hands before smoking, eating, drinking or using the toilet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Water based solution.
Appearance and Odour	Green, water based solution with an acrid acetic acid odour.
Chemical Formula (for the main ingredients)	Copper Silicate: $\text{Cu}^{2+} \text{SiO}_3^{2-}$, Acetic Acid: $\text{CH}_3\text{-COOH}$
Melting Point / Boiling Point	MP 0°C BP 100°C
Vapour Pressure	As for water.
Specific Gravity	1.01 g/L at 20°C
Relative Vapour Density	Not available (air=1)
Solubility	Soluble in water (provided dilute Acetic Acid is present)
Percent volatile by volume	>60% (water content)
pH	3.5 (due to residual Acetic Acid)
Odour Threshold	Not available
Saturated Vapour Conc'n	Not available
Evaporation Rate	Not available (Butyl Acetate = 1)
Octanol/Water Partition Co-efficient	log P(o/w) Not available
Corrosiveness	Not available. No significant corrosive effects expected. Will slowly react with aluminium, copper, etc.

Flammable Properties

Flashpoint	Not applicable (not combustible)
Flammability Limits (FL) (%)	Lower FL: Not applicable Upper FL: Not applicable
Autoignition Temp	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions To Avoid:	Neutralising the Acetic Acid will cause precipitation of Copper Silicate.
Incompatible Materials:	Alkaline materials will react and precipitate the Copper Silicate.
Unsuitable Container Materials:	No particular incompatibilities.
Hazardous Decomposition Products:	If Overheated: Mists containing dilute Copper Silicate & Acetic Acid. If Burnt: Not combustible
Hazardous Reactions:	Hazardous polymerisation will not occur.

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11. TOXICOLOGICAL INFORMATION

Overall Product: Not classified as harmful by any routes.
Not classified as a Skin, Respiratory or Eye Irritant.
Not classified as a Skin Sensitiser.

Overall Product Toxicity Data:

Acute Oral Toxicity LD50 (rat): >2000 mg/kg (estimation based on the ingredients present)

12. ECOLOGICAL INFORMATION

General: Spillage of the whole container in one location may cause a localised environmental hazard due to the <1% Copper Silicate salt and <1% Acetic Acid present.

Slightly water polluting substance. Avoid contaminating waterways.

Ecotoxicity Data: None available.

Persistence & Degradability The Acetic Acid is biodegradable.

Mobility: The Copper Silicate will precipitate when neutralised, and become immobile.

13. DISPOSAL CONSIDERATIONS

Disposal: Disposal to be in accordance with Local, State & Federal EPA waste regulations.

Recover, reuse or recycle the product if possible.

Send for treatment by neutralisation / precipitation at an approved facility.

Empty Containers: Empty contaminated packages thoroughly. They can be recycled after cleaning.

14. TRANSPORT INFORMATION

Not Dangerous Goods by Road & Rail, by Air, nor by Sea.

UN Number: Not Applicable

Proper Shipping Name: Not Applicable

Dangerous Goods Class: Not Applicable

Subsidiary risk: Not applicable

Packing Group: Not Applicable

Hazchem Code: Not Applicable

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76): Not Applicable

Marine Pollutant to IMDG Code: No

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15. REGULATORY INFORMATION

Not a Workplace Hazardous Substance

Not Dangerous Goods

Not SUSDP Schedule Poison

AICS: The Copper Silicate ingredients is not on the Australian Inventory of Chemical Substances.

APVMA: Copper Silicate is approved to be used in this product. APVMA Approval No.55689/0602.

16. OTHER INFORMATION

MSDS Dates and Revisions

MSDS Original Preparation Date : 26th May 2005
MSDS Latest Revision Date : 22 October 2009
Sections Changed in Latest Revision : General review.

Contact Point: phone: (03) 9497 2822 email: CStory@Kendon.com.au
mobile:0418-530-461 (General Manager) mobile: 0409-577-174 (Technical Manager)

MSDS APPROVED: Kendon

Acronyms Used

ADG Code Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road & Rail
NOHSC Australian National Occupational Health and Safety Commission
WHS Workplace Hazardous Substance
CAS No. Chemical Abstracts Service Registry Number
CAS-ON-AICS CAS NO. is ON the Australian Inventory of Chemical Substances
UN No. United Nations Dangerous Goods Number

MSDS Code Used This MSDS has been prepared according to the National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2011(2003)]

This MSDS summarises to the best of our knowledge the health and safety hazard information on the product and how to safely handle and use the product in the workplace, and should not be construed as guaranteeing specific technical properties. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Since methods and conditions are beyond our control, in inappropriate contexts we do not accept liability for any damages resulting from the use of, or reliance on, this information.

Reviewers Initials / Yr / Mth: JS0910