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Material Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE CHEMICAL PRODUCT

Product Name : **Ekofix - Z**

Product Type : Primary alcohol compound in a aqueous formulation

Product Use : For the exhumation and preservation of rodents with Kontramill and Ekomille devices as per directions for use label on product.

SECTION 2 : HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA
DANGEROUS ACCORDING TO THE CRITERIA OF THE ADG CODE**

Symbols: Xn Harmful ; Xi Irritant

Risk Phrases:

R10 - Flammable
R22 – Harmful if swallowed
R37/38 - Irritating to respiratory system and skin.
R41 – Risk of serious damage to eyes
R67 – Vapours may cause drowsiness and dizziness

Safety Phrases:

S2 - Keep out of the reach of children
S7/9 Keep container tightly closed and in a well ventilated place
S16 - Keep away from sources of ignition – No smoking
S24/25 - Avoid contact with skin and eyes
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 36/37/39 Wear suitable protective clothing/ gloves and eye/face protection
S46 If swallowed, seek medical advice immediately and show this container or label.

ADG Classification: Class 3 **UN Number:** 1120 (*n- butanol*) **Hazchem:** 3 [Y]

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Poisons Information Centre: 13 1126 from anywhere in Australia

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion
n-butanol	71-36-3	20 %
Inerts (incl water)	-	To 100 %

SECTION 4: FIRST AID MEASURES

Call The Poisons Information Centre if you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

The active n-butanol shows a low order of toxicity in single dose exposures to laboratory animals. However for safety to avoid repeated or prolonged exposure follow these procedures;

Swallowed: If swallowed, do NOT induce vomiting. Rinse mouth with water Seek immediate medical assistance.

Eye: If in eyes, hold eyes open, flood with water for at least 15 minutes or until advised to do so by the Poisons Information Centre or a doctor.

Skin: If skin or hair contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. If swelling, redness, blistering or irritation occurs seek medical assistance.

Inhaled: Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing

First Aid facilities: Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

Advice to Doctor: Treat symptomatically. Can cause corneal burns.

Additional Information: This is a 20 % aqueous formulation of the active n – butanol.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry agents (chemical powder, carbon dioxide).

Hazards from combustion products: Carbon monoxide and/or Carbon dioxide may be evolved.

Precautions for Fire Fighters and Special Protective Equipment: Flammable liquid. Wear full protective clothing and self-contained breathing apparatus.

Additional Information: Hazchem code 3(Y) This is a 20 % aqueous formulation of the active n – butanol.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Remove all sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment. Collect and seal in properly labelled containers or drum for disposal. Wash area down with detergent and excess water.

In the event of an accidental spill, control spill at source and prevent spillage from entering drains or water courses. Wear full protective clothing including face mask and face shield. All skin areas should be covered. Wear protective gloves of rubber, PVC . Absorb onto sand, vermiculite or other suitable absorbent material. If spill is large or if absorbent material is not available create a barrier to stop material spreading and going into drains or waterways. Avoid using sawdust or other combustible material. Sweep up and pump recoverable product into labelled containers for salvage, and dispose of promptly at approved site.

After spill, wash area preventing runoff from entering drains or waterways. If significant quantity enters drains, advise emergency services and EPA. Refer Section 12 below for further information.

SECTION 7: HANDLING AND STORAGE

Precautions: Avoid breathing of or contact with material. Use in well ventilated areas. Wash thoroughly after handling. Avoid contact with skin and eyes and clothing. Handle open containers in well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains. Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Do not store near strong oxidants. Store away from heat or sources of ignition.

Dispensing: Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.

Flammability: Flammable

Additional Information: Hazchem code 3(Y) This is a 20 % aqueous formulation of the active n – butanol

DO NOT destroy original product container which can be used to contain remaining liquid after product use in trap.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards: National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard $152\text{mg}/\text{m}^3$ (50ppm) TWA Sk for n-butanol.

Personal Protective Equipment:

Respiratory Protection: In instances where ethanol concentrations are likely to exceed 500ppm, an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.

Hand Protection: Use solvent resistant gloves. Nitrile, PVC or neoprene.

Eye Protection: Wear safety Goggles.

Protective Clothing: Use chemical resistant glove/gauntlets, boots and apron. Skin protection not ordinarily required beyond standard issue work clothes.

Engineering Controls: Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists. Keep containers closed when not in use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION	CHEMICAL PROPERTIES (of active n-butanol)
Appearance	Colourless Clear Liquid
Odour	Alcoholic
pH:	N/A
Vapour Pressure (kPa @ 20°C):	0.56
Vapour Density (air = 1)	2.6
Boiling Point (°C):	117.7
Freezing/Melting Point (°C):	-89
Solubility in Water	7.45% @ 25°C
Specific Gravity (g/ml @ 20°C):	0.81
Flashpoint (°C):	35 (CC)
Flammability Limits (%):	1.4 – 11.2
Auto Ignition Temperature (°C):	343
Percent Volatiles	100
Evaporation Rate (Butyl Acetate = 1)	0.4

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials: Strong oxidising agents and strong mineral acids

Hazardous Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS : (of active – n-butanol)

Acute:

Swallowed: Accidental swallowing is unlikely in the workplace setting. Swallowing can cause nausea, vomiting and central nervous system depression (similar to drunkenness). If vomiting occurs aspiration into lungs may cause pneumonitis.

Eye: A severe eye irritant. Contamination of eyes can result in permanent injury.

Skin: Contact with skin will result in irritation. Prolonged contact may cause defatting of skin which can lead to dermatitis. Can be absorbed through skin with resultant toxic effects.

Inhaled: Material is an irritant to the respiratory tract. Inhalation of the vapour may result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Chronic: No information available for product.

Toxicology summary:

Oral LD50 (rat) 800mg/kg

Skin Moderate irritant (rabbit)

Eyes Severe irritants (rabbit)

Additional Information: Hazchem code 3(Y) This is a 20 % aqueous formulation of the active n – butanol

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: (of active – n-butanol)

Avoid contaminating waterways : 96hr LC50 (fathead minnow) 1400mg/l

The active n-butanol is considered a VOC (volatile organic compound) and is emitted by natural sources such as plants, trees , animal waste microbes and insects and is practically non-toxic to aquatic organisms and birds on an acute basis.

SECTION 13: DISPOSAL CONSIDERATIONS

DO NOT destroy original product container, which can be used to contain remaining liquid after product use in trap.

Instructions for the disposal of this product and its containers are listed on the product label.

For collection of unwanted rural chemicals, contact ChemClear @1800 008 182 www.chemclear.com.au and for help with the disposal of empty drums, contact DrumMuster® www.drummuster.com.au for local and State contacts.

SECTION 14: TRANSPORT INFORMATION

UN Number: (n-butanol)	1120	Proper Shipping Name:	1-BUTANOL
Class:	3	Subsidiary Risk:	None allocated
Packing Group:	III	Hazchem Code:	3[Y]
Special Precautions for User:	Refer to product label for further information.		

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SECTION 15: REGULATORY INFORMATION

Poisons Schedule : Non allocated **AICS** : Listed

Dangerous Goods Initial Emergency Response Guide (*n-butanol*)(SA HB76:2004) : 16

APVMA : application pending

SECTION 16: OTHER INFORMATION

This MSDS contains only safety-related information sourced from the public domain and analytical results on this product:

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

AICS Australian Inventory of Chemical Substances

CAS number Chemical Abstracts Service Registry Number

Hazchem Number Emergency action code of numbers and letters that provide information firefighters

IARC International Agency for Research on Cancer

ASCC Office of the Australian Safety and Compensation Council

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

SUSDP Standard for the Uniform Scheduling of Drugs & Poisons

UN Number United Nations Number

Police and Fire Brigade: Dial 000 **Poisons Information Centre (13 11 26)**

Emergency contact: 07 3206 4600 (24 hours)

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