

MATERIAL SAFETY DATA SHEET



1.1 PRODUCT **ENDURO HAND DISINFECTANT**

1.2 DESCRIPTION / PROPERTIES (nature, reactivity):

Water based hand disinfectant. Biocidal, virucidal, sporicidal and fungicidal action: tested to EN1276, EN1650, EN12054, EN13704, EN14348, EN14476, EN13623, Avian Flu and EN1500. All of the biocidally active components used in this product are registered under the European Biocidal Products Directive for the appropriate applications.

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2. HAZARDS IDENTIFICATION

Classification: According to Directives 1999/45/EC and 67/548/EEC: As below for labelling.

Label elements: No symbol required.

Risk Phrases:
R52/53: Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety Phrases:
S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

Other Hazards: None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	WEL
Quaternary ammonium chlorides	7173-51-5	-	0 → 5%	C, N	R22, 34, 50	-
Amine oxide	70592-80-2	274-687-2	0 → 1%	X _i , N	R38, 41, 50	-
PHMB	27083-27-8	Polymer	0 → 1%	X _n , N	R22, 37/38, 41, 43, 50/53	-

All other hazardous components are below threshold concentrations.

4. FIRST AID MEASURES

INHALATION Very low risk in normal use since the product is non-volatile. In cases of respiratory distress, remove the patient from exposure, rest and keep warm.

SKIN CONTACT Washing hands before eating or drinking is recommended.

EYE CONTACT Contact lenses should be removed. Irrigate eyes copiously with clean, fresh water for at least 10 minutes. Seek medical advice if any irritation persists.

INGESTION Very low risk in normal use. Wash out mouth with water. If swallowed in quantity, drink water to dilute and seek medical advice. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Since the product is not flammable, if involved in a fire, use extinguishing media appropriate to the source of the fire.

Special Hazards: None known

Advice for fire fighters:

Wear self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures:

Not normally required.

Environmental Precautions:

Product is not an environmental hazard in normal circumstances of use. Small quantities may be disposed of by dilution.

Methods and material for containment and cleaning up:

Pick up significant spillages with appropriate absorbent material e.g. cloths, absorbent pads, sand, and place in a sealed container for disposal. Rinse down traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling:

No specific handling precautions necessary. When possible, washing of hands before eating or drinking is recommended as good practice.

Conditions for safe storage:

May be stored for periods over 24 months in sealed original containers as supplied. Store in a cool dry area. Protect from contamination. Protect from frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:

None listed

Reference:

HSE Guidance Note EH40 2007: Workplace Exposure Limits 2007.

Exposure Controls:

Provide eyewash station when handling liquid in bulk.

Personal Protection:

Respiratory:

Not normally required.

Hand:

May be used as a hand disinfectant.

Eyes:

Not required in normal use of the product.

Skin:

Not recommended for use on broken skin or open wounds.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear colourless to pale yellow liquid.
Odour	:	Faint
pH value	:	Approximately 4.0 to 7.0, liquid as supplied.
Boiling point/boiling range	:	As water.
Flash point	:	None measurable
Flammability (solid/gas)	:	Non-flammable
Explosive properties	:	None known
Oxidising properties	:	None
Vapour pressure at 20°C	:	As water
Specific Gravity at 20°C	:	Not applicable
Solubility in water	:	Soluble.
Partition coefficient (n-octanol/water)	:	Not measured – mixture.
Viscosity mPas	:	<10
Vapour density	:	As water.
Evaporation rate	:	As water.
Other	:	

10. STABILITY AND REACTIVITY

Reactivity:	Low
Chemical stability:	Stable.
Possibility of hazardous reactions:	None with proper storage and handling.
Conditions to avoid:	Extremes of temperature.
Incompatible materials:	Strong oxidising agents may render the product inactive.
Hazardous decomposition products:	No specific hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute Health Effects:	
Respiratory:	Low risk
Skin:	Hand disinfectants may cause some local irritation for sensitive individuals.
Eyes:	May cause irritation.
Ingestion:	Low risk.
Sensitisation:	Not considered to be a sensitiser.
Repeated dose toxicity:	Not determined.
CMR effects.	None known.

12. ECOLOGICAL INFORMATION

Toxicity:	Not considered to be an environmental hazard in normal usage, but large volumes must be disposed of as hazardous waste. Keep away from the aquatic environment.
Persistence and degradability:	The liquid degrades rapidly in the environment once diluted.
Bioaccumulation potential:	No bioaccumulation is expected. The liquid is degradable and water-soluble
Mobility in soil:	Expected to adsorb strongly.
PTB and vPvB assessment:	Very low risk
Other adverse effects:	None

13. DISPOSAL CONSIDERATION

Disposal methods: Dispose of bulk liquid as hazardous liquid waste according to local regulations. Small volumes such as are used for hand disinfection may be diluted to drain.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport.	
UN No.	N/A
Class:	Not regulated under ADR, RID, ADN, IMDG or ICAO
Proper shipping name:	N/A
Packing Group:	N/A
Environmental hazards:	Not a marine pollutant.
Other:	None

15. REGULATORY INFORMATION

Regulatory Information:	
UK Regulatory References:	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. EH40/2007: Workplace Exposure Limits 2007.
EC Directives and Regulations:	Directive 1999/45/EC and Directive 67/548/EEC as modified by Regulation (EC) No. 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010

Enduro Hand Disinfectant

16. OTHER INFORMATION

Risk Phrases: Applicable only to materials listed in section 3 when supplied as concentrates.
R22 Harmful if swallowed
R34 Causes burns
R37 Irritating to respiratory system
R38 Irritating to skin
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact
R50 Very toxic to aquatic organisms.

Training advice: When used as intended this product requires no specific PPE equipment or training. For professional use of the liquid, the need for personal protective equipment should be based on a work place risk assessment for the particular use.

Recommended restrictions on use: Active materials registered under the Biocidal Products Directive for use in Private area and public health area disinfectants and other biocidal products.

Further information: The product is supplied as a packaged liquid, foam or spray, which is not expected to produce adverse health or environmental effects under normal conditions of use or disposal.

PLEASE NOTE:

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.

Signature: _____

Date: 6th July 2011