



SAFETY DATA SHEET

MOSI-GUARD NATURAL SPRAY

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

PRODUCT NAME MOSI-GUARD NATURAL SPRAY 100mls

APPLICATION Insect repellent

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2 HAZARDS IDENTIFICATION

Flammable. Irritating to eyes.

CLASSIFICATION Xi; R36 R10.

PHYSICAL & CHEMICAL When sprayed on a naked flame or any incandescent material the mist/vapours can
HAZARDS be ignited.

HUMAN HEALTH Irritating to eyes. Spray mists may cause respiratory tract irritation.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
CIS- AND TRANS-P-MENTHANE-3,8-DIOL MIXTURE	255-953-7	42822-86-6	30 - 50%	Xi; R36
ETHANOL	200-578-6	64-17-5	20 - 40%	F; R11
PROPAN-2-OL	200-661-7	67-63-0	5 – 20%	F; R11 Xi; R36 R67

The full text for all R-phrases are displayed in Section 16

4 FIRST-AID MEASURES

INHALATION	May cause nausea, headache, dizziness and intoxication. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
INGESTION	May cause discomfort if swallowed. May cause nausea, headache, dizziness and intoxication. Rinse mouth thoroughly. Do not induce vomiting. Get medical attention.
SKIN CONTACT	Not relevant.
EYE CONTACT	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	Extinguish with alcohol resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.
SPECIAL FIRE FIGHTING PROCEDURES	Avoid breathing fire vapours. Fight advanced or massive fires from safe distance or protected location.
SPECIFIC HAZARDS	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO ₂).
PROTECTIVE MEASURES IN FIRE	Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear protective clothing as described in Section 8 of this safety data sheet.
SPILL CLEAN UP METHODS	Extinguish all ignition sources. Avoid sparks, flames, heat & smoking. Ventilate. Stop leak if possible without risk. Absorb with sand or other inert absorbent. Collect in containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS	Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Avoid contact with eyes. Avoid inhalation of vapours and spray mists. Use only in well ventilated areas.
STORAGE PRECAUTIONS	Keep away from heat, sparks and open flame. Keep above the chemical's freezing point. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep out of the reach of children.
STORAGE CLASS	Flammable liquid storage.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
ETHANOL	WEL	1000 ppm	1920 mg/m3		
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3

INGREDIENT COMMENTS WEL = Workplace Exposure Limits

EYE PROTECTION Avoid contact with eyes.

HYGIENE MEASURES When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Liquid

COLOUR Pale yellow

RELATIVE DENSITY 0.89 – 0.91

FLASH POINT (°C) 26°C

10 STABILITY AND REACTIVITY

STABILITY Stable under normal temperature conditions and recommended use

CONDITIONS TO AVOID Avoid exposing to heat and contact with strong oxidising substances.

11 TOXICOLOGICAL INFORMATION

INHALATION Spray mists may cause respiratory tract irritation. Drowsiness, dizziness, disorientation, vertigo.

INGESTION May cause discomfort if swallowed. May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT No specific health warnings noted.

EYE CONTACT Irritating to eyes.

Name	ETHANOL
Toxic Dose 1 – LD 50	5,840 mg/kg (oral rat)
Toxic Conc. – LC50	32,000 ppm/4h (inh-rat)
Name	PROPAN-2-OL
Toxic Dose 1 – LD 50	4570 mg/kg (oral rat)
Toxic Dose 2 – LD 50	13400 mg/kg (derm rab)
Toxic Conc. – LC 50	30 mg/1/4h (inh-rat)
Name	CIS AND TRANS P-MENTHANE-3,8-DIOL MIXTURE
Toxic Dose 1 - LD 50	> 2g/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY The product is not expected to be hazardous to the environment

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Dispose of waste and residues in accordance with local authority requirements.
Recover and reclaim or recycle if practical.

14 TRANSPORT INFORMATION

GENERAL The information shown in this section is for the product as described. For limited quantity packaging / limited load information, please consult the relevant modal documentation using this data.



UK ROAD CLASS	3		
PROPER SHIPPING NAME	Alcohols, N.O.S. (ETHANOL, PROPAN-2-OL)		
UN NO. ROAD	1987	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	HAZARD NO. (ADR)	30
ADR LABEL NO.	3	HAZCHEM CODE	3Y
CEFIC TEC ® NO.	30GF1-III	RID CLASS NO.	3
RID PACK GROUP	III	UN NO. SEA	1987
IMDG CLASS	3	IMDG PACK GR.	III
EMS	F-E, S-D	MARINE POLLUTANT	No
UN NO. AIR	1987	AIR CLASS	3
AIR PACK GR.	III		

15 REGULATORY INFORMATION

LABELLING



Irritant

RISK PHRASES	R10	Flammable
	R36	Irritating to eyes
SAFETY PHRASES	S2	Keep out of the reach of children
	S23	Do not breathe vapour/spray
	S25	Avoid contact with eyes
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S46	If swallowed, seek medical advice immediately and show this container or label
	S51	Use only in well-ventilated areas.

EU DIRECTIVES Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS
Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE
Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES
Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION DATE	06-2008
REV. NO. / REPL. SDS GENERATED	1/07-2007
RISK PHRASES IN FULL	R11 Highly flammable
	R36 Irritating to eyes
	R67 Vapours may cause drowsiness and dizziness.