



SAFETY DATA SHEET

GERANIOL 980

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

PRODUCT NAME	GERANIOL 980
CAS-No.	106-24-1
EC No.	203-377-1
SUPPLIER	Lansdowne Chemicals Winstons house, Carterton, Oxfordshire OX18 3EZ +44 (0) 1993 843081 +44 (0) 1993 841261 Techincal department msds@lansdownearomatics.com
PRODUCT NO.	GERANIOL
EMERGENCY TELEPHONE	EMERGENCY INFORMATION OUT OF OFFICE HOURS, PLEASE CONTACT CARECHEM 24: +44 (0)1270 502891 OR +44 (0)1865 407333

2 HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (1999/45) Xi;R36/38. R43. N;R51/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
TRANS-3,7-DIMETHYLOCTA-2,6-DIEN-1-OL	203-377-1	106-24-1	60-100%	Xi;R36/38. N;R51/53. R43.

The Full Text for all R-Phrases are Displayed in Section 16

EC No.	203-377-1
CAS-No.	106-24-1

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention.

INGESTION

Immediately rinse mouth and provide fresh air. Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Important! Immediately rinse with water for at least 15 minutes. Obtain medical attention and bring these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder. Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray should be used to cool containers.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

GERANIOL 980

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Cover with inert, non-combustible, inorganic absorbent material Sweep up and removed to an approved disposal container. Avoid open flames and other sources of ignition.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Do not eat, drink or smoke when using the product. Provide good ventilation. Observe good chemical hygiene practices.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place. Keep away from heat, sparks and open flame. Protect from air.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

No exposure limits noted for ingredient(s).

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Provide eyewash station and safety shower.

HYGIENE MEASURES

Wash hands after handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Floral-like.		
MOL. WEIGHT	154.25 g/mol	BOILING POINT (°C)	226 (1013 hPa)
RELATIVE DENSITY	0.87-0.885 g/cm ³ 25	VAPOUR PRESSURE	50 hPa 139.5
VISCOSITY	6.7 mPas 20	FLASH POINT (°C)	113 Not noted.
FLAMMABILITY LIMIT - LOWER(%)	0.9	FLAMMABILITY LIMIT - UPPER(%)	4.1
PARTITION COEFFICIENT (N-Octanol/Water)	2.6 @ 25 deg C	SOLUBILITY VALUE (g/100g H₂O@20°C)	0.1 g/l @ 25 deg C

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

MATERIALS TO AVOID

Strong alkalis. Strong acids. Strong oxidising substances.

GERANIOL 980**HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon monoxide (CO). Unidentified organic compounds may be formed during combustion

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 3600 mg/kg (oral rat)
TOXIC DOSE 2 - LD 50 >5000 mg/kg (skn-rbt)

INHALATION

May be harmful if inhaled.

INGESTION

May be harmful if swallowed.

SKIN CONTACT

Irritating to skin. May cause sensitisation by skin contact.

EYE CONTACT

Risk of serious damage to eyes.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

No data on possible environmental effects have been found.

LC 50, 96 Hrs, FISH mg/l 3.2 mg/l Pimephales promelas**EC 50, 48 Hrs, DAPHNIA, mg/l** 30 mins, activated sludge, domestic (DIN EN ISO 8192-OECD 209-88/302/EEC, P.C, aerobic: 70mg/l)**DEGRADABILITY**

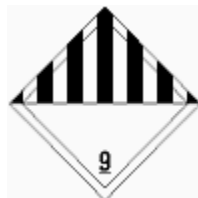
Readily biodegradable. 90-100% DOC reduction (3d) (OECD 301 (new version)) (arobic, activated sludge, domestic)

WATER HAZARD CLASSIFICATION

Do not allow product to reach ground water/water bodies/sewage systems.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GERANIOL)		
UN NO. ROAD	3082	ADR CLASS NO.	9
ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.	ADR PACK GROUP	III
TUNNEL RESTRICTION CODE	(E)	HAZARD NO. (ADR)	90 Environmentally hazardous substance; miscellaneous dangerous substances.
UN NO. SEA	3082	IMDG CLASS	9
IMDG PACK GR.	III	UN NO. AIR	3082
AIR CLASS	9	AIR PACK GR.	III

15 REGULATORY INFORMATION**LABELLING**

GERANIOL 980

Irritant



Dangerous for the environment

CONTAINS

TRANS-3,7-DIMETHYLOCTA-2,6-DIEN-1-OL

RISK PHRASES

R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

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.
S37	Wear suitable gloves.
S57	Use appropriate containment to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

16 OTHER INFORMATION**INFORMATION SOURCES**

Material Safety Data Sheet, Misc. manufacturers.

REVISION COMMENTS

This is first issue.

REVISION DATE 04-10**REV. NO./REPL. SDS** 000**GENERATED****SDS NO.** 11260**DATE** 04-10**RISK PHRASES IN FULL**

R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.