

## SAFETY DATA SHEET

## GAMMA UNDECALACTONE

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

PRODUCT NAME GAMMA UNDECALACTONE

PRODUCT NO. GU

EMERGENCY INFORMATION OUT OF  
OFFICE HOURS, PLEASE CONTACT  
CARECHEM 24: +44 (0)1270 502891 OR  
+44 (0)1865 407333

SUPPLIER Lansdowne Chemicals  
Winstons house,  
Carterton,  
Oxfordshire  
OX18 3EZ  
+44 (0) 1993 843081  
+44 (0) 1993 841261  
Technical department  
msds@lansdownearomatics.com

**2 HAZARDS IDENTIFICATION**

HAZARD ID Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION N;R51/53.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name GAMMA UNDECALACTONE

EC No. 203-225-4

CAS-No. 104-67-6

Content 60-100%

Classification N;R51/53.

RISK PHRASES R51/53

EC No. 203-225-4

CAS-No. 104-67-6

**4 FIRST-AID MEASURES**

INHALATION Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.

SKIN CONTACT Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

**5 FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA Water. Foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES Use supplied air respirator if product is involved in a fire.

SPECIFIC HAZARDS Toxic gases/vapours/fumes of Oxides of Carbon.

**6 ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS For personal protection, see section 8.

ENVIRONMENTAL PRECAUTIONS Avoid release to the environment.

SPILL CLEAN UP METHODS Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

**7 HANDLING AND STORAGE**

USAGE PRECAUTIONS Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS Store in tightly closed original container in a dry, cool and well-ventilated place.

Protect from light, including direct sunrays.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENT COMMENTS No exposure limits noted for ingredient(s).

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES  
RESPIRATORY EQUIPMENT

Provide adequate general and local exhaust ventilation. No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

Use protective gloves. Obtain the appropriate professional advice taking into account of the conditions under which the glove is used.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE Colourless-pale yellow liquid

ODOUR Peach odour

SOLUBILITY Insoluble in water

# GAMMA UNDECALACTONE

MOL. WEIGHT 184.28  
BOILING POINT (°C) 286 @ 2.00mm HG  
RELATIVE DENSITY 9490  
FLASH POINT (°C) 137 Not noted.

## 10 STABILITY AND REACTIVITY

STABILITY Stable under normal temperature conditions.

CONDITIONS TO AVOID Easily oxidised in air. Avoid heat.

MATERIALS TO AVOID Strong oxidising substances.

HAZARDOUS TOXIC gases/vapours/fumes of: Oxides of:  
DECOMPOSITION Carbon.  
PRODUCTS

## 11 TOXICOLOGICAL INFORMATION

INHALATION May cause irritation to the respiratory system.

INGESTION May cause severe internal injury.

SKIN CONTACT Irritating to skin. May be absorbed through the skin.

EYE CONTACT Irritating to eyes. May cause temporary eye irritation.

MEDICAL SYMPTOMS Drowsiness, dizziness, disorientation, vertigo.

## 12 ECOLOGICAL INFORMATION

ECOTOXICITY No data on possible environmental effects have been found.

## 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Dispose of waste and residues in accordance with local authority requirements. Incinerate in suitable combustion chamber.

## 14 TRANSPORT INFORMATION

GENERAL LQ NUMBER: 7

EXCEPTED QUANTITY: E1

### TRANSPORT LABELS



UK ROAD CLASS CLASS 9

PROPER SHIPPING NAME ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (ALDEHYDE C-14)

UN NO. ROAD 3082

UK ROAD PACK GR. PG III

ADR CLASS NO. CLASS 9

ADR CLASS Class 9: Miscellaneous dangerous substances and articles.

ADR PACK GROUP PG III

TUNNEL RESTRICTION CODE (E)

HAZARD NO. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances.

CEFIC TEC(R) NO. 90GM6-III

UN NO. SEA 3082  
IMDG CLASS 9  
IMDG PACK GR. III  
MARINE POLLUTANT Marine Pollutant  
UN NO. AIR 3082  
AIR CLASS 9  
AIR PACK GR. III

## 15 REGULATORY INFORMATION



Dangerous for the environment

### RISK PHRASES

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SAFETY PHRASES

S57 Use appropriate containment to avoid environmental contamination.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

## 16 OTHER INFORMATION

GENERAL INFORMATION/DISCLAIMER: This safety data sheet 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.

INFORMATION SOURCES Material Safety Data Sheet, Misc. manufacturers.

REVISION COMMENTS This is first issue.

REVISION DATE 06-09

REV. NO./REPL. SDS 000

GENERATED

SDS NO. 11191

DATE 06-09

RISK PHRASES IN FULL Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

