

## SAFETY DATA SHEET

## NATURAL BENZALDEHYDE

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

PRODUCT NAME NATURAL BENZALDEHYDE

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

SUPPLIER Lansdowne Chemicals  
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OX18 3EZ  
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Techincal department  
msds@lansdownearomatics.com

**2 HAZARDS IDENTIFICATION**

HAZARD ID Harmful if swallowed.

CLASSIFICATION Xn;R22.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name BENZALDEHYDE

EC No. 202-860-4

CAS-No. 100-52-7

Content 60-100%

Classification Xn;R22

RISK PHRASES R22

EU INDEX NO. 605-012-00-5

EC No. 202-860-4

GROSS FORMULA C7H6O

CAS-No. 100-52-7

**4 FIRST-AID MEASURES**

INHALATION Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention.

SKIN CONTACT Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if any discomfort continues.

**5 FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES Use supplied air respirator if product is involved in a fire. Use special protective clothing. Regular protection may not be safe.

UNUSUAL FIRE & EXPLOSION HAZARDS May develop highly toxic or corrosive fumes if heated.

PROTECTIVE MEASURES IN FIRE Wear full protective clothing. Use air-supplied respirator during fire fighting.

**6 ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS DO NOT touch spilled material. Shovel into dry containers. Cover and move the containers. Flush the area with water. Do not contaminate water sources or sewer. Avoid contact with skin or inhalation of spillage, dust or vapour.

**7 HANDLING AND STORAGE**

USAGE PRECAUTIONS Keep away from heat, sparks and open flame. Eye wash facilities and emergency shower must be available when handling this product.

STORAGE PRECAUTIONS Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from light, including direct sunrays.

STORAGE CLASS Chemical storage.

**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.  
Use specified dust masks.

# NATURAL BENZALDEHYDE

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 chemical safety goggles where eye exposure is reasonably probable.
OTHER PROTECTION	Provide eyewash station and safety shower.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless-pale yellow liquid
COLOUR	Colourless to pale yellow
ODOUR	Almond.
SOLUBILITY	Insoluble in water Soluble in Methanol. Ethanol.
BOILING POINT (°C)	178
MELTING POINT (°C)	-26
RELATIVE DENSITY	1.041-1.051 @ 20 °c
FLASH POINT (°C)	62 Not noted.
AUTO IGNITION TEMPERATURE (°C)	190
FLAMMABILITY LIMIT - LOWER(%)	1.4
FLAMMABILITY LIMIT - UPPER(%)	8.5
REFRACTIVE INDEX	1.538-1.548

## 10 STABILITY AND REACTIVITY

STABILITY	Stable under normal temperature conditions.
CONDITIONS TO AVOID	Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.
MATERIALS TO AVOID	Acids, oxidising. Bases, alkalis (inorganic). Strong oxidising substances. Iron and iron salts, aluminium and brass. Performic acids, phenols, air, oxygen, alkali metals
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic gases/vapours/fumes of: Carbon monoxide (CO). Hydrocarbons. Carbon dioxide (CO <sub>2</sub> ).

## 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	1300 mg/kg (oral rat)
TOXIC CONC. - LC 50	3 mg/l/4h (inh-rat)
HEALTH WARNINGS	Gas or vapour is toxic or extremely irritating even on brief exposure. This chemical can be hazardous when inhaled and/or touched. This chemical may cause skin/eye irritation and burns (corrosive).
ROUTE OF ENTRY	Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.
TARGET ORGANS	Eyes. Gastro-intestinal tract. Liver. Respiratory system, lungs. Skin. Mucous membranes.

## 12 ECOLOGICAL INFORMATION

ECOTOXICITY	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
LC 50, 96 Hrs, FISH mg/l	1.07

## 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Do not allow runoff to sewer, waterway or ground. Recover and reclaim or recycle, if practical. Incinerate in suitable combustion chamber. Dispose of waste and residues in accordance with local authority requirements.
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## 14 TRANSPORT INFORMATION

GENERAL	LQ NUMBER: 28 EXCEPTED QUANTITY: E1
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### TRANSPORT LABELS



UK ROAD CLASS	9
PROPER SHIPPING NAME	BENZALDEHYDE
UN NO. ROAD	1990
UK ROAD PACK GR.	III
ADR CLASS NO.	9
ADR CLASS	Class 9: Other dangerous substances.
ADR PACK GROUP	III
TUNNEL RESTRICTION CODE	(E)
HAZARD NO. (ADR)	90 Environmentally hazardous substance; miscellaneous dangerous substances.
HAZARD No. (ADR)	9
RID CLASS NO.	9
RID PACK GROUP	III
UN NO. SEA	1990
IMDG CLASS	9
IMDG PACK GR.	III
MARINE POLLUTANT	No.
UN NO. AIR	1990
AIR CLASS	9
AIR PACK GR.	III

## 15 REGULATORY INFORMATION



Harmful	
RISK PHRASES	
R22	Harmful if swallowed.
SAFETY PHRASES	
S24/25	Avoid contact with skin and eyes.
S60	This material and its container must be disposed of as hazardous waste.
S36/37	Wear suitable protective clothing and gloves.

## 16 OTHER INFORMATION

**16 OTHER INFORMATION**

GENERAL INFORMATIONDISCLAIMER: 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 Revision due to amendment of contents in section: 1, 16.

REVISION DATE 04-09

REV. NO./REPL. SDS 002

GENERATED

SDS NO. 10796

DATE 04-09

RISK PHRASES IN FULL Harmful if swallowed.