



SAFETY DATA SHEET

2-METHYLBUTYRALDEHYDE

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

PRODUCT NAME	2-METHYLBUTYRALDEHYDE
PRODUCT NO.	2MBA
SUPPLIER	Lansdowne Chemicals Winstons house, Carterton, Oxfordshire OX18 3EZ +44 (0) 1993 843081 +44 (0) 1993 841261 Techincal department msds@lansdownearomatics.com
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. Highly flammable.

CLASSIFICATION Xi;R36. F;R11.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
2-METHYLBUTYRALDEHYDE	202-485-6	96-17-3	60-100%	Xi;R36. F;R11.

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

EC No. 202-485-6

CAS-No. 96-17-3

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. If breathing stops, provide artificial respiration. For breathing difficulties oxygen may be necessary.

INGESTION

Get medical attention. Immediately rinse mouth and provide fresh air. Never give liquid to an unconscious person.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray should be used to cool containers.

UNUSUAL FIRE & EXPLOSION HAZARDS

FLAMMABLE. Emits toxic fumes under fire conditions. May travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions Forms explosive mixtures with air.

2-METHYLBUTYRALDEHYDE

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. Do not smoke, use naked flames or other sources of ignition. Use non-sparking tools

ENVIRONMENTAL PRECAUTIONS

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

SPILL CLEAN UP METHODS

Cover with an activated carbon adsorbent, take up and place in closed containers. Ventilate area and wash spill site after material pickup is complete. For waste disposal, see section 13.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid inhalation of vapours/spray and contact with skin and eyes. Avoid prolonged or repeated exposure.

STORAGE PRECAUTIONS

Store in tightly closed original container. Keep away from heat, sparks and open flame. Handle and store under inert gas. Air sensitive.

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

Wear suitable respiratory protection.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Provide eyewash station and safety shower.

HYGIENE MEASURES

Wash promptly with soap & water if skin becomes contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid		
COLOUR	Colourless		
BOILING POINT (°C)	90-92	RELATIVE DENSITY	0.82 g/cm3
FLASH POINT (°C)	4 CC (Closed cup).		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

AVOID AIR

2-METHYLBUTYRALDEHYDE**HAZARDOUS POLYMERISATION**

Will not occur.

MATERIALS TO AVOID

Strong reducing agents. Strong bases. Oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTSCarbon monoxide (CO). Carbon dioxide (CO₂).**11 TOXICOLOGICAL INFORMATION****TOXIC DOSE 1 - LD 50** 6400 mg/kg (oral rat)**TOXIC CONC. - LC 50** 14000 ppm/4h (inh-rat)**TOXICOLOGICAL INFORMATION**

To the best of our knowledge, the chemical/physical/toxicological properties have not been thoroughly investigated.

INHALATION

May be irritating to mucous membranes and upper respiratory tract May be harmful if inhaled.

INGESTION

May be harmful if swallowed.

SKIN CONTACT

May cause skin irritation May be harmful if absorbed through the skin.

EYE CONTACT

Irritating to eyes.

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.

14 TRANSPORT INFORMATION**GENERAL**

LQ NUMBER: 4

EXCEPTED QUANTITY: E2

**PROPER SHIPPING NAME**

2-METHYLBUTANOL

UN NO. ROAD

3371

ADR CLASS NO.

3

ADR CLASS

Class 3: Flammable liquids.

ADR PACK GROUP

II

TUNNEL RESTRICTION

(D/E)

HAZARD NO. (ADR)33 Highly flammable liquid
(flash-point below 23°C).**CODE****UN NO. SEA**

3371

IMDG CLASS

3

IMDG PACK GR.

II

UN NO. AIR

3371

AIR CLASS

3

AIR PACK GR.

II

15 REGULATORY INFORMATION**LABELLING**

2-METHYLBUTYRALDEHYDE

Irritant



Highly Flammable

CONTAINS

2-METHYLBUTYRALDEHYDE

RISK PHRASES

R36	Irritating to eyes.
R11	Highly flammable.

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

Revision due to amendment of contents in section: 14, 16.

REVISION DATE 02-10

REV. NO./REPL. SDS 000

GENERATED

SDS NO. 11185

DATE 02-10

RISK PHRASES IN FULL

R11	Highly flammable.
R36	Irritating to eyes.