



SAFETY DATA SHEET

2-METHYLBUTYRIC ACID

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

PRODUCT NAME	2-METHYLBUTYRIC ACID
PRODUCT NO.	2-METH
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

Harmful in contact with skin and if swallowed. Causes burns.

CLASSIFICATION Xn;R21/22. C;R34.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
2-METHYLBUTYRIC ACID	204-145-2	116-53-0	60-100%	Xn;R21/22. C;R34.

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

EC No. 204-145-2

GROSS FORMULA C₅H₁₀O₂

CAS-No. 116-53-0

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

Remove affected person from source of contamination. Remove contaminated clothing. 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

Foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Use supplied air respirator if product is involved in a fire.

UNUSUAL FIRE & EXPLOSION HAZARDS

Emits toxic fumes under fire conditions.

2-METHYLBUTYRIC ACID

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

Cover with dry lime or soda ash, pick up. Ventilate area and wash spill site after material pickup is complete.

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.

STORAGE CLASS

Chemical storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Goggles/face shield are recommended.

HYGIENE MEASURES

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

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Pungent Acidic.		
BOILING POINT (°C)	176.5 760 mm Hg	RELATIVE DENSITY	0.931 - 0.941 20
VAPOUR DENSITY (air=1)	3.5	VAPOUR PRESSURE	0.5 mmHg 20
FLASH POINT (°C)	83 CC (Closed cup).	PARTITION COEFFICIENT (N-Octanol/Water)	Log Kow: 1.18
REFRACTIVE INDEX	1.400 - 1.410		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

HAZARDOUS POLYMERISATION

Will not polymerise.

2-METHYLBUTYRIC ACID

MATERIALS TO AVOID

Bases. Oxidising agents. Reducing Agents

HAZARDOUS DECOMPOSITION PRODUCTS

Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 1870 mg/kg (oral rat)

TOXIC DOSE 2 - LD 50 1460 mg/kg (skn-rbt)

INHALATION

Destructive to tissue of mucous membranes and upper respiratory tract May be harmful if inhaled.

INGESTION

Harmful if swallowed.

SKIN CONTACT

Causes burns. Harmful if absorbed through skin

EYE CONTACT

Causes burns.

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: 19

EXCEPTED QUANTITY: E1



UK ROAD CLASS

8

PROPER SHIPPING NAME

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2-METHYLBUTYRIC ACID)

UN NO. ROAD

3265

UK ROAD PACK GR.

III

ADR CLASS NO.

8

ADR CLASS

Class 8: Corrosive substances.
(E)

ADR PACK GROUP

III

TUNNEL RESTRICTION

CODE

UN NO. SEA

3265

HAZARD NO. (ADR)

80 Corrosive or slightly
corrosive substance.

IMDG CLASS

8

IMDG PACK GR.

III

UN NO. AIR

3265

AIR CLASS

8

AIR PACK GR.

III

15 REGULATORY INFORMATION

LABELLING

2-METHYLBUTYRIC ACID



Corrosive



Harmful

CONTAINS

2-METHYLBUTYRIC ACID

RISK PHRASES

- | | |
|--------|--|
| R21/22 | Harmful in contact with skin and if swallowed. |
| R34 | Causes burns. |

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. |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |
| S45 | In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). |
| S60 | This material and its container must be disposed of as hazardous waste. |

16 OTHER INFORMATION

INFORMATION SOURCES

Material Safety Data Sheet, Misc. manufacturers. Sigma-Aldrich Material Data Sheet.

REVISION COMMENTS

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

- | | |
|--------------------|-------|
| REVISION DATE | 08-09 |
| REV. NO./REPL. SDS | 005 |
| GENERATED | |
| SDS NO. | 10967 |
| DATE | 08-09 |

RISK PHRASES IN FULL

- | | |
|--------|--|
| R21/22 | Harmful in contact with skin and if swallowed. |
| R34 | Causes burns. |

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.