

3-METHOXY BUTANOL

Safety Data Sheet

Supersedes:27/11/2023

Revision: 1.3

Revisiondate:12/12/2023

SECTION 1: Identification

1.1 Identification

Product form	:	Substance
Substance name	:	3-Methoxy butanol
CAS No.	:	2517-43-3
EC/ List No.	:	219-741-8
Formula	:	C ₅ H ₁₂ O ₂
Molecular weight	:	104.15 g/mol
Synonyms	:	3-methoxybutan-1-ol

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	:	Laboratory chemicals, Manufacture of substances
Relevant identified uses	:	Intermediate
Uses advised against:	:	Not known

1.3 Details of the supplier of the safety datasheet

Godavari Biorefineries Ltd.
45/47, Somaiya bhavan,
Mahatma Gandhi Road,
Fort, Mumbai -400001, INDIA.
T 0091 22 22048272
Email: alka@somaiya.com
www.somaiya.com

1.4 Emergency telephone Number

Emergency number	:	0091 2423 279308 0091 22 22048272 (Monday – Friday - 09.30 hrs to 18.00 hrs)
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SECTION 2: Hazard(s) identification

GHS classification

2.1 Classification of the substance or mixture

Acute toxicity-Oral, Category 5	H303
Flammable liquids, Category 4	H 227

2.2 GHS labeling

Hazard Pictograms (GHS)



GHS 02

Signal Word (GHS)

: Warning

Hazard Statements (GHS)

: H227 –Flammable liquid.
: H303 – May be harmful if swallowed.

Precautionary Statements (GHS)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
: P280 - Wear protective gloves/ eye protection/ face protection.
: P240: Ground/bond container and receiving equipment.
: P243: Take precautionary measures against static discharge.
: P280: Wear protective gloves/protective clothing/eye protection/face protection.

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- : P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
- : P301+ P317 - IF SWALLOWED: Get medical help
- : P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- : P403+P235 - Store in a well-ventilated place. Keep cool.
- : P501 - Dispose of contents/ container to an approved waste disposal plant
- : None

Supplemental Hazard information

2.3 Other hazards

Not data available.

2.4 Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/Information on ingredients

3.1 Substance

Name	Product Identifier CAS No. EC No.	Concentration %	GHS Classification
3-Methoxy butanol	2517-43-3 219-741-8	>99.0%	Acute Tox. Oral Cat. 5, H303, Flam. Liq.Cat. 4, H227

Full text of hazard classes and H-statements: see section 16

3.2. Mixture

Not applicable.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information** : Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
- Inhalation** : If breathed in, move person into fresh air. Consult a physician after significant exposure.
- Skin contact** : If skin irritation persists, call a physician. After contact with skin, wash immediately with plenty of soap and water.
- Eye contact** : Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids.
- Ingestion** : Do not induce vomiting without medical advice. Immediately give large quantities of water to drink. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry powder, Foam, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire

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5.2 Special hazards arising from the substance or mixture

Heating or fire can release toxic gas

Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

Firefighting instructions : Wear self-contained breathing apparatus for firefighting if necessary

5.4 Additional information

Use water spray to cool unopened containers

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Wear personal protective equipment.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Keep away from sources of ignition. No smoking. Take necessary action to avoid static electricity discharge. In case of fire, emergency cooling with water spray should be available.
Temperature class: T2

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place.
German storage class: 10: Combustible liquids not listed in class 3A or 3B

7.3 Specific end uses

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits:

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Material should be handled safely.

Personal protective equipment : 
Protective goggles. Gloves. Protective clothing. Face shield. Gas mask with filter.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: Butyl Rubber. Polyethylene/Ethylene Vinyl Alcohol. Viton. GIVE GOOD RESISTANCE: Neoprene. GIVE LESS RESISTANCE: Natural Rubber. PVC. GIVE POOR RESISTANCE: Polyethylene. PVA.

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Hand protection	:	Gloves.
Eye protection	:	Safety glasses.
Skin and body protection	:	Head/neck protection. Corrosion-proof clothing.
Respiratory protection	:	Wear gas mask with filter type A if conc. in air > exposure limit. High vapour/ gas concentration: self-contained respirator.
Thermal hazard protection	:	None.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid
Colour	:	Colourless
Odour	:	No Data Available
pH	:	No Data Available
Melting point	:	No Data Available
Freezing point	:	-85 °C
Initial boiling point/boiling range	:	157°C at 1.013 hPa
Flash Point	:	67 °C – closed cup
Relative evaporation rate	:	No Data Available
Relative density	:	0.923 g/mL at 23 °C
Relative vapour density at 20°C	:	No Data Available
Specific gravity/ density	:	No Data Available
Molecular mass	:	104.15 g/mol
Flammability(Solid, Gas)	:	No Data Available
Upper/lower flammability or Explosive limit	:	No Data Available
Solubility	:	No Data Available
Vapor pressure	:	0.17 hPa at 20°C
Vapour density	:	No Data Available
Evaporation Rate	:	No Data Available
Partition coefficient n-octanol/water	:	log Pow: 0.002 at 20°C
Auto-ignition temperature	:	305 °C
Decomposition temperature	:	No Data Available
Viscosity	:	3.68 mPa.s (20°C)
Explosive Limits	:	No Data Available
Oxidizing properties	:	No Data Available

9.2 Other information

No Data Available

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SECTION 10: Stability and reactivity

10.1 Reactivity	:	No Data Available
10.2 Chemical Stability	:	Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	:	No Data Available
10.4 Conditions to avoid	:	Keep away from heat and sources of ignition. Avoid contact with heat, sparks, open flame, and static discharge
10.5 Incompatible materials	:	Oxidizing agents, Peroxides, Acids and bases
10.6 Hazardous decomposition products	:	Carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

LD50 oral toxicity	:	Species: Rat Value: >2000 mg/kg Method: OECD Guideline 401
LC50 inhalation toxicity	:	Species: cat Value: 6200 mg/m ³
Skin corrosion/irritation	:	Species: Rabbit Classification: non-irritant
Serious eye damage/irritation	:	Nonirritant.
Respiratory or skin sensitization	:	Irritant
Germ cell mutagenicity	:	No data available
Carcinogenicity	:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Teratogenicity	:	No data available.
Reproductive toxicity	:	No data available.
Specific target organ toxicity(single exposure)	:	No data available.
Specific target organ toxicity (repeated exposure)	:	No data available.
Aspiration hazard	:	No data available.
Signs and Symptoms of Exposure	:	Not data available.
Synergistic effects	:	Not data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to Fish LC50	:	>100 mg/l channel catfish fingerlings 96 h
Toxicity to Microorganisms EC10	:	Species: in activated sludge Value: 155 mg/L Exposure time: 3 h
Toxicity to aquatic invertebrates EC50	:	>100 mg/l Daphnia magna 48 h

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12.2 Persistence and degradability

No Data Available.

12.3 Bio accumulative potential

No Data Available.

12.4 Mobility in soil

No Data Available.

12.5 Results of PBT and vPvB assessment

No Data Available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal : Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal. Offer surplus and non-recyclable solutions to a licensed disposal company.

Packaging: : Dispose of as unused product.

SECTION 14: Transport Information

Marine transport (IMDG)

UN number : UN1987

Proper shipping name and description : ALCOHOLS liquid, N.O.S. (3-Methoxy butanol)

Class : 3

Packaging group : III

Hazard Identification Number : -

EmS code : F-E, S-D

Marine pollutant : No

Air transport ICAO/IATA

UN number : UN1987

Proper shipping name and description : ALCOHOLS liquid, N.O.S. (3-Methoxy butanol)

Class : 3

Packaging group : III

Hazard Labels : -

Environmentally hazardous : No

Department of Transportation (DOT)

UN number : UN1987

Proper shipping name and description : ALCOHOLS liquid, N.O.S. (3-Methoxy butanol)

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Class : 3
 Packaging group : III
 Reportable Quantity (RQ) : Not applicable
 Poison Inhalation Hazard : No
 : 3 - Flammable liquid

Hazard labels (DOT)



SECTION 15: Regulatory information

15.1.1 National regulations

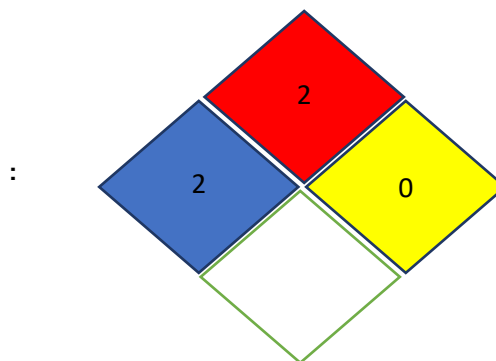
Country	National Inventories	Listing
CANADA	DSL	Listed
CHINA	IECSC	Listed
JAPAN	ENCS	Listed
PHILIPPINES	PICCS	Listed
SOUTH KOREA	KECI	Listed
USA	TSCA	Listed
EUROPE	EINECS	Listed
NEWZEALAND	NZIoC	Listed
JAPAN	ISHL	Listed
AUSTRELIA	AICS	Listed

SECTION 16: Other information

16.1 Hazard Statement

H227 : Flammable liquid Category 4
 H303 : Acute toxicity - Oral, Category 5

16.2 NFPA Rating



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16.3 Abbreviations and acronyms

PBT =Persistent Bioaccumulative and Toxic

vPvB= Very Persistent and Very Bioaccumulative

SCBA= Self Contained Breathing Apparatus

NIOSH REL= National Institute for Occupational Safety and Health: Recommended Exposure Limit

OSHA PEL=Occupational Safety and Health Administration Permissible Exposure Limit

OELTWA= Occupational Exposure Limit Time Weighted Averages

IDLH= Immediately Dangerous to Life or Health

UEL= Upper Explosive Limit

LEL= Lower Explosive Limit

RTECS= Registry of Toxic Effects of Chemical Substances

NTP=National Toxicology Programm

IARC= International Agency for Research on Cancer

EPA=Environmental Protection Agency

TSCA= Toxic Substances Control Act

NFPA= National Fire Protection Association

CSR=Chemical Safety Report

BCF = Bio Concentration Factor

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

TLV = Threshold Limit Value

ACGIH = American Conference of Governmental Industrial Hygienist

REACH = Registration, Evaluation .Authorisation and Restriction of Chemicals

CLP = Classification, Labelling and Packaging

LD / LC = Lethal Doses / Lethal Concentration

GHS = Globally Harmonised System

ADR = Accord europeen relative au transport international de marchandises

IMDG-Code = International Maritime Code for Dangerous Goods

EmS = Emergency measures on Sea

ICAO = International Civil Aviation Organization

IATA/DGR= International Air Transport Association/Dangerous Goods Regulation

16.4 Further information:

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