

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Methyl isobutyl carbinol

Product code : 000000000050000445

Manufacturer or supplier's details

Company : Celanese (Shanghai) International Trading Co., Ltd

Address : 4560 Jinke Road, Zhangjiang, Pudong
Shanghai, China 020 201210

Telephone :

Emergency telephone number : CHEMTREC International phone number: +1-703-527 3887,
+86 532 8388-9090 (China, 24h)

E-mail address : HazCom@celanese.com

Recommended use of the chemical and restrictions on use

Recommended use : Solvent

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: liquid
Colour	: colourless
Odour	: mild

Flammable liquid and vapour. May be harmful if swallowed or in contact with skin. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life.

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 5

Acute toxicity (Dermal) : Category 5

Serious eye damage/eye irritation : Category 2A

Specific target organ toxicity - single exposure : Category 3 (respiratory tract irritation)

Short-term (acute) aquatic hazard : Category 3

GHS label elements

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H226 Flammable liquid and vapour.
H303 + H313 May be harmful if swallowed or in contact with skin.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

Precautionary statements

: **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Physical and chemical hazards

Flammable liquid and vapour.

Health hazards

May be harmful if swallowed. May be harmful in contact with skin. Causes serious eye irritation.
May cause respiratory irritation.

Environmental hazards

Harmful to aquatic life.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Components

Chemical name	CAS-No.	Concentration (% w/w)
4-methylpentan-2-ol	108-11-2	≥ 90 - ≤ 100

4. FIRST AID MEASURES

- General advice : Remove contaminated, soaked clothing immediately and dispose of safely
Pay attention to own protection
In any case show the physician the Safety Data Sheet
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Keep at rest.
Move to fresh air.
Call a physician or poison control centre immediately.
- If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with polyethylene glycol and afterwards with plenty of water.
Obtain medical attention.
- If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- Immediately flush eye(s) with plenty of water.
Remove contact lenses.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

	<p>Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.</p>
If swallowed	<p>: Rinse with plenty of water. If conscious, drink plenty of water. If swallowed, do not induce vomiting - seek medical advice.</p> <p>Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.</p>
Most important symptoms and effects, both acute and delayed	<p>: Vapours may cause irritation to the eyes, respiratory system and the skin. Inhalation of high vapour concentrations can cause CNS-depression and narcosis May be harmful if swallowed or in contact with skin. Causes serious eye irritation. May cause respiratory irritation.</p>
Notes to physician	<p>: Treat symptomatically In case of lung irritation, first treatment with dexametason aerosol (spray). If ingested, irrigate the stomach using activated charcoal in addition. Administration of laxative agent is recommended after gastric lavage. Treat symptomatically.</p>

5. FIREFIGHTING MEASURES

Suitable extinguishing media	<p>: Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical</p>
Unsuitable extinguishing media	<p>: High volume water jet</p>
Specific hazards during firefighting	<p>: Vapours are heavier than air and may spread along floors. Vapours may spread long distances and ignite. The product will float on water and can be reignited on surface water.</p> <p>Do not allow run-off from fire fighting to enter drains or water courses.</p>
Hazardous combustion products	<p>: Carbon oxides</p>
Specific extinguishing methods	<p>: Cool containers/tanks with water spray. Remove undamaged containers from fire area if it is safe to do so.</p>

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment : Wear self-contained breathing apparatus and protective suit for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid inhalation, ingestion and contact with skin and eyes.
Keep away from heat and sources of ignition.
Provide adequate ventilation.
Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Should not be released into the environment.
Do not discharge large quantities of concentrated spills or residues into surface water or sanitary sewer system.

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Remove all sources of ignition.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Dispose of in accordance with local regulations.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Local/Total ventilation : Do not use in areas without adequate ventilation.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
Take necessary action to avoid static electricity discharge

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue:
1.2	2021/05/27	000000033643	2019/04/24
			Date of first issue: 2019/04/24

(which might cause ignition of organic vapours).
In case of fire, use water spray.

Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge
(which might cause ignition of organic vapours).
Keep away from open flames, hot surfaces and sources of
ignition.

Advice on safe handling : Do not use in areas without adequate ventilation.
Keep container closed when not in use.
Avoid inhalation of vapour or mist.
Wash thoroughly after handling.

Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the
application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national
regulations.

Avoidance of contact : Strong acids
Oxidizing agents

Not applicable

Storage

Conditions for safe storage : Store locked up.
Store in a cool/low-temperature, well-ventilated, dry place
away from heat and ignition sources
Take measures to prevent the build up of electrostatic charge.

No smoking.
Keep container tightly closed in a dry and well-ventilated
place.
Containers which are opened must be carefully resealed and
kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with
the technological safety standards.

Further information on
storage conditions : none

Materials to avoid : Keep away from oxidizing agents.
Keep away from strong acids.

Further information on
storage stability : No decomposition if stored normally.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version 1.2 Revision Date: 2021/05/27 SDS Number: 000000033643 Date of last issue: 2019/04/24
Date of first issue: 2019/04/24

No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
4-methylpentan-2-ol	108-11-2	TWA	20 ppm	ACGIH
		STEL	40 ppm	ACGIH

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Eye/face protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Protective suit
Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hand protection
- Material : butyl-rubber
- Break through time : 480 min
- Glove thickness : 0.3 mm
- Glove length : Standard glove type.
- Directive : Protective gloves complying with EN 374.
- Protective index : Class 6
- Material : butyl-rubber
- Break through time : 480 min
- Glove thickness : 0.7 mm
- Glove length : Standard glove type.
- Directive : Protective gloves complying with EN 374.
- Protective index : Class 6
- Remarks : Solvent-resistant gloves (butyl-rubber)
- The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Protective measures : Do not breathe vapours or spray mist.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Hygiene measures : Avoid contact with the skin and the eyes.
Avoid exposure to vapour.
When using do not eat, drink or smoke.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Wash skin thoroughly after handling.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless
Odour	: mild
Odour Threshold	: not determined
pH	: not determined
Melting point/range	: -90 °C
Boiling point/boiling range	: 131.6 °C (1,013 hPa)
Flash point	: 41 °C Method: open cup
Evaporation rate	: 0.26 (Butyl Acetate=1.0)
Upper explosion limit / Upper flammability limit	: 5.5 %(V)
Lower explosion limit / Lower flammability limit	: 1 %(V)
Vapour pressure	: 34 hPa (50 °C)
Relative vapour density	: 3.52 (Air = 1.0)
Density	: 0.808 g/cm ³ (20 °C)
Solubility(ies) Water solubility	: 21.8 g/l (20 °C)

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Solubility in other solvents	:	soluble Solvent: Diethylether
		soluble Solvent: Ethanol
Partition coefficient: n-octanol/water	:	log Pow: 1.43 measured data
Auto-ignition temperature	:	335 °C Method: DIN 51794
Decomposition temperature	:	not determined
Viscosity Viscosity, dynamic	:	4,074 mPa.s (25 °C)
Explosive properties	:	not applicable based on consideration of the structure
Oxidizing properties	:	not applicable based on consideration of the structure
Surface tension	:	not determined
Molecular weight	:	102.18 g/mol

10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions. No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Hazardous polymerisation does not occur. No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	:	Keep away from fire, sparks and heated surfaces. Take action to prevent static discharges. Heat, flames and sparks.
Incompatible materials	:	Strong acids Oxidizing agents Not applicable
Hazardous decomposition products	:	No decomposition if used as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

May be harmful if swallowed or in contact with skin.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Product:

Acute oral toxicity : Acute toxicity estimate: 2,617 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 2,899 mg/kg
Method: Calculation method

Components:

4-methylpentan-2-ol:

Acute oral toxicity : LD50 (Rat): 2,590 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 16 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 2,870 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

4-methylpentan-2-ol:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Components:

4-methylpentan-2-ol:

Species : Rabbit
Result : Eye irritation
Method : OECD Test Guideline 405
Remarks : Severe eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Respiratory sensitisation

Not classified based on available information.

Components:

4-methylpentan-2-ol:

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

4-methylpentan-2-ol:

Genotoxicity in vitro	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
		Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
		Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 480 Result: negative
		Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative

Carcinogenicity

Not classified based on available information.

Components:

4-methylpentan-2-ol:

Remarks	:	No significant adverse effects were reported
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Reproductive toxicity

Not classified based on available information.

Components:

4-methylpentan-2-ol:

Effects on fertility	:	Species: Rat Application Route: Inhalation General Toxicity - Parent: NOAEL: 4,093 mg/kg body weight Method: OECD Test Guideline 416 Result: No toxicity to reproduction
Effects on foetal	:	Test Type: Pre-natal

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

development

Species: Rat
Application Route: Inhalation
Developmental Toxicity: NOAEL: 4,106 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic, maternal or developmental effects, No developmental or reproductive effects

Species: Rat
Application Route: Oral
Developmental Toxicity: 300 mg/kg body weight
Method: OECD Test Guideline 422
Result: No developmental or reproductive effects

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

4-methylpentan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 92.4 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 337 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 334 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50: > 100 mg/l
Exposure time: 3 h
Test Type: activated sludge
Method: OECD Test Guideline 209

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Persistence and degradability

Components:

4-methylpentan-2-ol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 85 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

Components:

4-methylpentan-2-ol:

Results of PBT and vPvB assessment : The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of as hazardous waste in compliance with local and national 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.

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Dispose of waste product or used containers according to local regulations.

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	: UN 2053
Proper shipping name	: METHYL ISOBUTYL CARBINOL
Class	: 3
Packing group	: III
Labels	: 3

IATA-DGR

UN/ID No.	: UN 2053
Proper shipping name	: Methyl isobutyl carbinol
Class	: 3
Packing group	: III
Labels	: Flammable Liquids
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355

IMDG-Code

UN number	: UN 2053
Proper shipping name	: METHYL ISOBUTYL CARBINOL
Class	: 3
Packing group	: III
Labels	: 3
EmS Code	: F-E, S-D
Marine pollutant	: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	: UN 2053
Proper shipping name	: METHYL ISOBUTYL CARBINOL
Class	: 3
Packing group	: III
Labels	: 3

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)

No. / Code	Chemical name / Category	Threshold quantity
W5.4	Flammable liquids	5,000 t

16. OTHER INFORMATION

Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : Persistent, Bioaccumulative and Toxic
very Persistent and very Bioaccumulative
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Methyl isobutyl carbinol

Version	Revision Date:	SDS Number:	Date of last issue: 2019/04/24
1.2	2021/05/27	000000033643	Date of first issue: 2019/04/24

population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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CN / EN