

Butoxyl

Version 1.0 Revision Date: 2020/05/05 SDS Number: 000000033662 Date of last issue: -
Date of first issue: 2020/05/05

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Butoxyl
Product code : 000000000051012243

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: +1-703-741-5970,
+86 532 8388-9090 (China, 24h)
E-mail address : HazCom@celanese.com

Recommended use of the chemical and restrictions on use

Recommended use : Solvent
Restrictions on use : None known.

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: liquid
Colour	: colourless
Odour	: slight

May be harmful if swallowed. Toxic to aquatic life.

GHS Classification

Acute toxicity (Oral) : Category 5
Acute aquatic toxicity : Category 2

GHS label elements

Hazard pictograms : None
Signal word : Warning
Hazard statements : H303 May be harmful if swallowed.
H401 Toxic to aquatic life.
Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Response:

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version 1.0 Revision Date: 2020/05/05 SDS Number: 000000033662 Date of last issue: -
Date of first issue: 2020/05/05

P312 Call a POISON CENTER/doctor if you feel unwell.

Disposal:

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

Physical and chemical hazards

Not classified based on available information.

Health hazards

May be harmful if swallowed.

Environmental hazards

Toxic to aquatic life.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
3-methoxybutyl acetate	4435-53-4	>= 99.5

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
- If inhaled : Keep at rest.
Move to fresh air.
Call a physician or poison control centre immediately.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- If swallowed : Rinse with plenty of water.
If conscious, drink plenty of water.
If swallowed, do not induce vomiting - seek medical advice.
- Most important symptoms and effects, both acute and delayed : 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.
- Notes to physician : Treat symptomatically

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/05/05	000000033662	Date of first issue: 2020/05/05

In case of lung irritation, first treatment with dexametason aerosol (spray).
If ingested, irrigate the stomach using activated charcoal in addition.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam
Dry chemical
Carbon dioxide (CO₂)
 - Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
 - Hazardous combustion products : Carbon oxides
 - Specific extinguishing methods : Cool containers/tanks with water spray.
 - Special protective equipment for firefighters : Self-contained breathing apparatus (EN 133)
-

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid contact with the skin and the eyes.
Keep away from heat and sources of ignition.
Provide adequate ventilation.
 - Environmental precautions : Prevent further leakage or spillage.
Do not discharge large quantities of concentrated spills or residues into surface water or sanitary sewer system.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
 - Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Dispose of in accordance with local regulations.
-

7. HANDLING AND STORAGE

Handling

- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Ground/bond container and receiving equipment. In case of fire, use water spray.
 - Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
 - Avoidance of contact : None known.
-

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/05/05	000000033662	Date of first issue: 2020/05/05

Storage

Conditions for safe storage : Keep tightly closed in a dry, cool and well-ventilated place.
Handle and open container with care

Materials to avoid : No materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Equipment should conform to EN 136 or EN 140 and EN 143.
Use NIOSH approved respiratory protection.

Filter type : Organic vapour type

Eye/face protection : Tightly fitting safety goggles
In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.
Equipment should conform to EN 166.

Skin and body protection : Impervious clothing

Hand protection

Material : butyl-rubber
Break through time : 480 min
Glove thickness : 0.3 mm
Directive : Protective gloves complying with EN 374.
Manufacturer : Class 6

Protective measures : Avoid contact with skin and eyes.
Do not breathe vapours or spray mist.
Ensure that eye flushing systems and safety showers are located close to the working place.

Hygiene measures : When using do not eat, drink or smoke.
Take off all contaminated clothing immediately.
Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : colourless
Odour : slight
Odour Threshold : not determined

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/05/05	000000033662	Date of first issue: 2020/05/05

pH	:	neutral
Melting point/range	:	< -20 °C
Boiling point/boiling range	:	170 °C (1,013 hPa)
Flash point	:	68.0 °C Method: ISO 2719
Evaporation rate	:	not determined
Upper explosion limit	:	ca. 7.7 %(V)
Lower explosion limit	:	ca. 1.2 %(V)
Vapour pressure	:	0.34 hPa (20 °C) 5 hPa (50 °C)
Relative vapour density	:	5.05 (Air = 1.0)
Density	:	0.95 g/cm ³ (20 °C)
Solubility(ies)	:	
Water solubility	:	60.68 g/l (25 °C)
Partition coefficient: n-octanol/water	:	log Pow: 1.01 Calculation method
Auto-ignition temperature	:	410 °C Method: DIN 51794
Viscosity	:	
Viscosity, dynamic	:	0.71 mPa.s (20 °C) Method: Calculation method
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	:	146.19 g/mol

10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	No decomposition if used as directed.
Possibility of hazardous reactions	:	None known.
Conditions to avoid	:	Keep away from fire, sparks and heated surfaces. Keep away from heat and sources of ignition.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/05/05	000000033662	Date of first issue: 2020/05/05

Incompatible materials : None known.

Hazardous decomposition products : Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

3-methoxybutyl acetate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 95 mg/l
Exposure time: 2 h

Skin corrosion/irritation

Components:

3-methoxybutyl acetate:

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

Serious eye damage/eye irritation

Components:

3-methoxybutyl acetate:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

3-methoxybutyl acetate:

Species: Mouse
Result: Not a skin sensitizer.
Test substance: 3-Methoxy-3-methylbutanol

Germ cell mutagenicity

Components:

3-methoxybutyl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/05/05	000000033662	Date of first issue: 2020/05/05

Result: negative

- : Test Type: Chromosome aberration test in vitro
Species: Chinese hamster cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Test substance: 3-Methoxy-3-methylbutanol
- : Test Type: gene mutation test
Species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Test substance: 3-Methoxy-3-methylbutanol

Carcinogenicity

Components:

3-methoxybutyl acetate:

Result: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

3-methoxybutyl acetate:

Effects on fertility : Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 421
Result: No toxicity to reproduction

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Application Route: Oral
Developmental Toxicity: NOAEL: > 1,000 mg/kg body weight
Method: OECD Test Guideline 414
Result: No evidence of maternal or developmental toxicity

Repeated dose toxicity

Components:

3-methoxybutyl acetate:

Species: Rat
60 mg/kg
Application Route: Oral
Exposure time: 28d
Test substance: 3-Methoxy-3-methylbutanol
Symptoms: Liver and kidney weights increases in the absence of histopathological change.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/05/05	000000033662	Date of first issue: 2020/05/05

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

3-methoxybutyl acetate:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 7.1 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 360 mg/l
Exposure time: 24 h
Method: DIN 38412
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 70 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 1,000 mg/l
Exposure time: 16 h
Method: DIN 38 412 Part 8

Persistence and degradability

Components:

3-methoxybutyl acetate:

- Biodegradability : Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 10 d
Method: OECD Test Guideline 301E

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Components:

3-methoxybutyl acetate:

- 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.
-

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/05/05	000000033662	Date of first issue: 2020/05/05

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations

15. REGULATORY INFORMATION

National regulatory information

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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 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

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Butoxyl

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/05/05	000000033662	Date of first issue: 2020/05/05

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

Date format : yyyy/mm/dd

Disclaimer

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.

CN / EN