

Product Name Butoxyl ®
MSDS number 80189
Revision Number 6

Revision Date Sep.29.2018
Issuing date Feb.12.2019

AGHS/EN

1. Identification of the substance/preparation and the company/undertaking

Product Name
Butoxyl ®

Manufacturer or supplier's details
Celanese Sales Germany GmbH
Am Unisys-Park 1
65843 Sulzbach (Taunus)
Germany

Celanese Pte Ltd
60 Anson Road
Maple Tree Anson #13-02
Singapore 079914

Product Information
HazCom@celanese.com

Emergency telephone number
+(65) 62656917 (Operations Room direct dial)
or fax request to +(65) 62664696 (Facsimile to Operations Room)
or email to posh.er@paccoffshore.com.sg

In China Emergency Number: 86-532-83889090 (NRCC)

Identified uses
Solvent

2. Hazards identification

GHS Classification

Hazards	Category
Acute oral toxicity	Category 5
Acute aquatic toxicity	Category 2

Labeling

Signal Word Warning

Hazard Statements H303 - May be harmful if swallowed
H401 - Toxic to aquatic life

Precautionary Statements P273 - Avoid release to the environment
P312 - Call a POISON PHYSICIAN/doctor/physician if you feel unwell.

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3. Composition/Information on ingredients

Components	CAS-No	Percent %
3-Methoxybutyl acetate	4435-53-4	min. 99.5

Remarks Product is stabilized with 10 ppm BHT (3,5-Di-tert-butyl-4-hydroxytoluene)

4. First aid measures

General Information

Remove contaminated, soaked clothing immediately and dispose of safely. Pay attention to own protection. In any case show the physician the Safety Data Sheet.

Skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Inhalation

Keep at rest. Move to fresh air. Call a physician immediately.

Ingestion

Rinse with plenty of water. If conscious, drink plenty of water. If swallowed, do not induce vomiting - seek medical advice.

5. Fire-fighting measures

NFPA: Health: 1

Flammability: 2

Instability: 1

Suitable extinguishing media

Foam, Dry chemical, Carbon dioxide (CO₂)

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Under conditions giving incomplete combustion, hazardous gases produced may consist of

Carbon monoxide

Carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Special protective equipment for fire-fighters

self-contained breathing apparatus (EN 133).

Environmental precautions

Water used to fight fire runoff can cause environmental damage. Dike and collect water used to fight fire.

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Other Information

Cool containers / tanks with water spray.

6. Accidental release measures

Personal precautions

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 into the drains/surface waters/groundwater.

Methods for 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

Advice on safe handling

Provide sufficient air exchange and/or exhaust in work rooms.

Incompatible products

None known

Protection - fire and explosion:

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge. Ground and bond containers when transferring material. In case of fire, emergency cooling with water spray should be available.

Material storage

Keep in a dry, cool and well-ventilated place.

Incompatible products

None known

Technical measures/Storage conditions

Keep tightly closed in a dry, cool and well-ventilated place. Handle an open container with care.

8. Exposure controls / personal protection

ACGIH Exposure Limits

No exposure limits established.

OSHA Exposure Limits

No exposure limits established.

Exposure controls

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Engineering measures General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Personal protective equipment

General advice Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Use only in an area equipped with a safety shower. Hold eye wash fountain available.

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..

Respiratory protection If aerosols or vapors are present, respiratory protection is required (gas filter A) .

Eye 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 protection impervious clothing

Hand protection Chemicals resistant gloves
Suitable material Butyl-rubber
Reference substance Butyl glycollate
Type Butoject (Company KCL) or comparable article;
or refer to glove manufacturer's recommendation
Evaluation according to EN 374: level 6
Material thickness Approx. 0.3 mm
Break through time 480 min

9. Physical and chemical properties

Appearance

Form liquid
Color colourless
Odor weakly

Odor Threshold not determined
Molecular Weight 146.19 g/mol
Flash point 68.0°C
Method DIN EN ISO 2719
Ignition temperature 410°C
Method DIN 51794
Decomposition Not determined
Temperature
Lower explosion limit ~ 1.2 Vol. %
Upper explosion limit ~ 7.7 Vol. %
Flammability (solids) not applicable
Melting point/range < -20°C
Boiling point/range 170°C @ 1013 hPa
Density 0.95 g/ml @ 20°C
pH neutral

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Viscosity	0.71 mPa*s @ 20°C
Method	calculated
Vapor pressure	0.34 hPa @ 20°C 5.0 hPa @ 50°C
Vapor density	5.05 (Air=1)
Evaporation Rate	Not determined
Water solubility	60.68 g/l @ 25°C
Partition coefficient (n-octanol/water)	1.01 (calculated)
Explosive Properties	not applicable based on consideration of the structure
Oxidizing Properties	not applicable based on consideration of the structure
Surface Tension	not determined
Dissociation constant	not applicable based on consideration of the structure

10. Stability and reactivity

Reactivity

Stable under normal conditions of handling, use and transportation.

Conditions to avoid

Avoid any source of ignition.. Avoid contact with heat, sparks, open flame, and static discharge..

Incompatible Materials

None known

Hazardous Combustion or Decomposition Products:

Thermal decomposition products may include oxides of carbon.

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11. Toxicological information

Potential health effects

Routes of exposure Skin, Eyes

Immediate effects

Skin No adverse health effects have been observed.
Eyes No adverse health effects have been observed.
Inhalation No adverse health effects have been observed.
Ingestion Essentially non-toxic.

3-Methoxybutyl acetate

Acute oral toxicity LD50: > 2000 mg/kg
Acute inhalation toxicity LC50 (2h): >95000 mg/m³
Skin corrosion/irritation Not irritating
 Species rabbit
 Method OECD 404
Skin Sensitization nonsensitizer
 (Reference substance: n-Butyl acetate)
 Species mouse female
 Method MEST
Serious eye damage/eye irritation Not irritating
 Species rabbit eye
 Method OECD 405
Carcinogenic effects No evidence of carcinogenicity
in vitro Mutagenicity Ames Test: negative - with and without metabolic activation -
 Method: OECD 471 Mouse lymphoma cell gene-mutation:
 negative - with and without metabolic activation - Method:
 OECD 476 (Reference substance: 3-Methoxybutanol) In
 vitro Mammalian Chromosome aberrations in Chinese
 Hamster Cells: negative - with and without metabolic
 activation - Method: OECD 473 (Reference substance: 3-
 Methoxy-3-methylbutanol)
Reproductive toxicity No toxicity to reproduction (Reference substance: 3-
 Methoxy-3-methyl-1-butanol)
 Routes of exposure oral gavage
 Species rat
 NOEL: 1000 mg/kg bw/day
Developmental effects No evidence of maternal or developmental toxicity
 Routes of exposure oral gavage
 Species rat
 NOAEL: > 1000 mg/kg bw/day

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Repeated exposure

Routes of exposure
Species
Method

Liver and kidney weights increases in the absence of histopathological change (Reference substance: 3-Methoxy-3-methyl-1-butanol)
oral gavage
rats
Guideline for the 28-day repeated dose toxicity test in mammalian species
NOEL: 60 mg/kg bw/day

12. Ecological Information

3-Methoxybutyl acetate

Acute fish toxicity

Species:
Method

LC50: 7.1 mg/l (96h)
Danio rerio (Zebra fish)
OECD 203

Acute daphnia toxicity

Species:
Method

EC50: 360 mg/l (24h)
Daphnia magna
DIN 38412, Part 11

Toxicity to aquatic plants

Species:
Method

EC50: > 70 mg/l (72h)
Pseudokirchneriella subcapitata
OECD 201

Toxicity to bacteria

Species:
Method

EC50: > 1000 mg/l (16h)

Pseudomonas putida
DIN 38412 T.8

Biodegradation

Method

Readily biodegradable
> 70 % (10d)
OECD 301 E

Other potential hazards

The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

13. Disposal considerations

Product information

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.

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

14. Transport information

US Department of Transportation

UN/NA Number: NA 1993
Proper Shipping Name Combustible liquid, n.o.s.
Hazard Inducer (3-Methoxy-1-butylacetate)
Hazard class 3

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14. Transport information

Packing Group III
Emergency Resp. Guide 127

ADR/RID Not regulated

ADN ADN: Container
Not regulated

ADN Tanker

UN/ID No. ID 9003
Proper Shipping Name Substances with a flashpoint above 60°C and not more than 100°C, n.o.s.
Hazard Inducer (3-Methoxy-1-butylacetate)
Hazard Class 9
Environmentally hazardous no

ICAO/IATA Not restricted

IMDG Not regulated

15. Regulatory information

International Inventories

Australia (AICS)
Canada (DSL)
China (IECSC)
Europe (EINECS)
Japan (ENCS)
Japan (ISHL)
Korea (KECI)
New Zealand (NZIoC)
Philippines (PICCS)
United States (TSCA)

16. Other information

HMIS: Health: 0 Flammability: 2 Physical Hazard: 0

Prepared By

Product Stewardship Department
Celanese

Other Information:

Observe national and local legal requirements.

Changes against the previous version are marked by ***

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Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 1907/2006/EC indicates that no data meeting these requirements is available.

Further information

This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality For more information, other material safety data sheets or technical data sheets please consult the Celanese homepage (www.celanese.com)