

Butoxyl

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

SECTION 1. IDENTIFICATION

Product name : Butoxyl

Product code : 00000000051012243

Manufacturer or supplier's details

Company name of supplier : Celanese Ltd. Irving Texas

Address : 222 West Las Colinas Boulevard Suite 900N
Irving TX TX 75039

Telephone : '+1 972-443-4000

E-mail address of person : HazCom@celanese.com
responsible for the SDS

Emergency telephone : DOMESTIC NORTH AMERICA: 800-424-9300 INTERNATIONAL,
number CALL +1 703-527-3887 (collect calls accepted)

Recommended use of the chemical and restrictions on use

Recommended use : Solvent

Restrictions on use : None known.

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SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the Hazardous Products Regulations**

Flammable liquids : Category 4

GHS label elements

Signal word : Warning

Hazard statements : H227 Combustible liquid.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 Store in a well-ventilated place.

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

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

SECTION 4. FIRST AID MEASURES

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- 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.
- Notes to physician : Treat symptomatically
- In case of lung irritation, first treatment with dexametason aerosol (spray).

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If ingested, irrigate the stomach using activated charcoal in addition.

SECTION 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
- Further information : Cool containers/tanks with water spray.
- Special protective equipment for firefighters : Self-contained breathing apparatus (EN 133)

SECTION 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

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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.

SECTION 7. HANDLING AND STORAGE

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.

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.

SECTION 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.

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Use NIOSH approved respiratory protection.

Filter type : Organic vapour type

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

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 and body protection

: Impervious clothing

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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless

Odour : slight

Odour Threshold : not determined

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)

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Relative vapour density : 5.05
(Air = 1.0)

Density : 0.95 g/cm³ (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

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under normal conditions.

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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.

Incompatible materials : None known.

Hazardous decomposition products : Carbon oxides

SECTION 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

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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

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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.

SECTION 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 : EC50 (Daphnia magna (Water flea)): 360 mg/l

other aquatic invertebrates

Exposure time: 24 h

Method: DIN 38412

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 70 mg/l

Exposure time: 72 h

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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

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

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

SECTION 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

SECTION 15. REGULATORY INFORMATION

SECTION 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 -

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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

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