



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 24.10.2017

Version number 1

Revision: 24.10.2017

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

· Trade name: **Butoxyl (3-methoxybutyl acetate)**

· CAS Number:

4435-53-4

· EC number:

224-644-9

· Registration number: 01-2119548364-36-XXXX

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

No further relevant information available.

· Application of the substance / the preparation: Solvent for various applications

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer / Supplier:

OQEMA LTD

Winstons House

GB-Carterton, OX18 3EZ Oxfordshire

(+44 1993 843081

(+44 1993 841261

Website: www.oqema.com

· E-mail address of the competent person responsible for the Safety Data Sheet:

msds-service@oqema.com

· Informing department:

Legal Compliance

Only during office hours (monday - friday): 8:00 - 17:00

· 1.4 Emergency telephone number:

Emergency Call: Poison Control Center Mainz - 24 hour

Emergency service - Phone: +49 (0) 6131/19240

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

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· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Designation:**
4435-53-4 3-methoxybutyl acetate
- **Identification number(s):**
- **EC number:** 224-644-9

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing contaminated by the product.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact:**
Wash with soap and water.
If skin irritation continues, consult a doctor.
After prolonged skin contact defatting of skin possible, use skin protecting agent after prolonged skin contact.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting!
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Carbon dioxide (CO₂), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can form explosive vapour-air mixtures.
Carbon monoxide (CO) and Carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation.
- Remove all ignition sources.
- Do not breathe vapour.
- Use breathing protection against the effects of fumes/dust/aerosol.
- Avoid contact with skin and eyes.

· 6.2 Environmental precautions:

- Damp down gases/fumes/haze with water spray jet.
- Do not allow to enter drainage system, surface or ground water.
- Prevent from spreading (e.g. by damming-in or oil barriers).

· 6.3 Methods and material for containment and cleaning up:

- Ensure adequate ventilation.
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- Remove from the surface of water (e.g. skim or vacuum off).
- Dispose of the material collected according to regulations.

· 6.4 Reference to other sections

- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Ensure good interior ventilation, especially at floor level (fumes are heavier than air).
- Avoid breathing vapours.
- Prevent formation of aerosols.
- Do not inhale aerosols.
- Avoid contact with skin and eyes.

· Information about protection against explosions and fires:

- Fumes can combine with air to form an explosive mixture.
- Flammable fume/air mixtures may be formed in empty containers.
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Have fire extinguishing equipment ready in case of nearby fire.
- Do not spray on flames or red-hot objects.

Explosion protection
Temperature class: T2 (DIN VDE 0165)

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and containers:

- Observe all local and national regulations for storage of water polluting products.
- Observe regulations for storage of flammable liquids.

· Information about storage in one common storage facility:

- Observe regulations for storage of flammable liquids.

· Further information about storage conditions:

- Store container in a well ventilated position.

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- Keep container tightly sealed.
- Store in cool, dry conditions.
- Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** Not required.

· PNECs

PNEC	0.0071 mg/l (aqua (freshwater))
	0.00397 mg/kg (aqua (freshwater))
	0.00397 mg/kg (soil)
	1000 mg/l (STP)

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Instantly remove any contaminated garments.
 - Do not eat, drink or smoke while working.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
 - Use skin protection cream for preventive skin protection.
 - Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Use breathing protection with high concentrations.
- **Recommended filter device for short term use:**
 - Filter marking A (colour code brown), for filtering of organic gas/vapour with boiling point over 65°C.
- **Protection of hands:**
 - Solvent resistant gloves.
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
 - Check the permeability prior to each renewed use of the glove.
 - To avoid skin problems reduce the wearing of gloves to the required minimum.
- **Material of gloves**
 - Butyl rubber - BR
 - Recommended thickness of the material: ≥ 0.7 mm
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
 - Penetration time: ≥ 8 hours
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:**
 - Textile gloves
 - Leather gloves

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- **Eye protection:** Tightly sealed safety glasses
- **Body protection:**
Solvent resistant protective clothing
Body protection must be chosen depending on activity and possible exposure.
- **Limitation and supervision of exposure into the environment**
Do not allow to enter drainage system, surface or ground water.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	liquid
Colour:	colourless
Smell:	ester-like
Odour threshold:	not determined

· pH-value: not determined

· Change in condition

Melting point/freezing point:	< -20°C
Initial boiling point and boiling range:	171°C

· Flash point: 62,5°C

· Inflammability (solid, gaseous) not applicable

· Ignition temperature: 410°C

· Decomposition temperature: not determined

· Self-inflammability: not determined

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

· Critical values for explosion:

Lower:	~ 1,2Vol %
Upper:	~ 7,7Vol %

· Oxidising properties not classified as oxidising

· Vapor pressure at 30°C: 4hPa

Density at 20°C:	0,95g/cm ³
Relative density	not determined
Vapour density (AIR = 1):	5,05
Evaporation rate	not determined

· Solubility in / Miscibility with

Water: soluble

· Partition coefficient: n-octanol/water: 1,01log POW

· Viscosity:

dynamic at 20°C:	0,71mPas
kinematic:	not determined

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9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
 - Heat
 - Electrostatic charges
 - Sources of ignition
- **10.3 Possibility of hazardous reactions**
 - Flammable vapour-air mixtures may develop.
 - Used empty containers may contain product gases which form explosive mixtures with air.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 - Strong oxidizing agents
 - Strong acids
 - Alkaline materials
- **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO₂)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.
 - **LD/LC50 values that are relevant for classification:**
- | | | |
|------------|---------|---------------------------------|
| Oral | LD50 | 4210 mg/kg (rat) |
| Inhalative | LC50/2h | > 95000 mg/m ³ (rat) |
- **Primary irritant effect:**
 - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
 - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
 - **Other information (about experimental toxicology):** Ames test: negative

- **Subacute to chronic toxicity:**

Oral	NOEL (28 d)	60 mg/kg/d (rat)
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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - According to present knowledge no CMR-effects known.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

EC50/16 h	> 1000 mg/l (pseudomonas putida) (DIN 38412, Part 8)
EC50/24 h	360 mg/l (water flea (daphnia magna)) (DIN 38412, Part 11)
EC50/72 h	> 70 mg/l (algae (pseudokirchneriella subcapitata)) (OECD 201)
EC50/96 h	7.1 mg/l (zebra fish (danio rerio)) (OECD 203)

· 12.2 Persistence and degradability

Easily biodegradable

· Other information:

Biodegradability > 70% in 10 days (OECD 301E)

· 12.3 Bioaccumulative potential

log P(o/w): 1.01

· 12.4 Mobility in soil

No further relevant information available.

· Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Water hazard class 1 (Self-assessment): slightly hazardous for water

· 12.5 Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

Not applicable.

· 12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· Waste disposal key number:

According to local/national regulations.

· European waste catalogue:

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA

Void

· 14.2 UN proper shipping name

· ADR, IMDG, IATA

Void

· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA

· Class

Void

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· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	NO
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.
- **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
ID-Number: 5020
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for changes:**
The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.
- **Department issuing SDS:**
C.S.B. GmbH Phone: +49 - 2151 -
652086-0 Fax: +49 - 2151 -
Düsseldorfer Str. 113
652086-9
47809 Krefeld / Germany
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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Trade name: Butoxyl (3-methoxybutyl acetate)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· **Sources:** These data are based on information submitted by pre-suppliers.

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