

Hazard pictograms



Signal word

Danger

Hazard statements

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

Precautionary statements

Prevention

P260

Do not breathe vapor.

P264

Wash thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363

Wash contaminated clothing before reuse.

Storage

P405

Store locked up.

Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

None.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Sodium Hydroxide	5 - < 10	1310-73-2 215-185-5	-	011-002-00-6	
Classification:	Skin Corr. 1A;H314				
2-(2-Butoxyethoxy)ethanol	3 - < 5	112-34-5 203-961-6	-	603-096-00-8	#
Classification:	Eye Irrit. 2;H319				

Other components below reportable levels 80 - < 90

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

Composition comments

The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

- 4.2. Most important symptoms and effects, both acute and delayed
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
- 4.3. Indication of any immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

- General fire hazards
No unusual fire or explosion hazards noted.
- 5.1. Extinguishing media
Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.
- 5.2. Special hazards arising from the substance or mixture
During fire, gases hazardous to health may be formed.
- 5.3. Advice for firefighters
Special protective equipment for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures
Move containers from fire area if you can do so without risk.
- Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Keep unnecessary personnel away. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders
Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
- 6.2. Environmental precautions
Avoid discharge into drains, water courses or onto the ground.
- 6.3. Methods and material for containment and cleaning up
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use.
- 6.4. Reference to other sections
For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
- 7.2. Conditions for safe storage, including any incompatibilities
Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
- 7.3. Specific end use(s)
Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	MAK	97,5 mg/m ³	
	STEL	10 ppm 101,2 mg/m ³ 15 ppm	
	Ceiling	4 mg/m ³	Inhalable fraction.

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
	MAK	2 mg/m3	Inhalable fraction.

Belgium. Exposure Limit Values.

Components	Type	Value	
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
Sodium Hydroxide (CAS 1310-73-2)	TWA	2 mg/m3	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m3	
		15 ppm	
	TWA	67,5 mg/m3	
		10 ppm	
Sodium Hydroxide (CAS 1310-73-2)	TWA	2 mg/m3	Aerosol.

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value	
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	MAC	67,5 mg/m3	
		10 ppm	
	STEL	101,2 mg/m3	
		15 ppm	
Sodium Hydroxide (CAS 1310-73-2)	STEL	2 mg/m3	

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value	
Sodium Hydroxide (CAS 1310-73-2)	TWA	2 mg/m3	

Czech Republic. OELs. Government Decree 361

Components	Type	Value	
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	Ceiling	100 mg/m3	
		70 mg/m3	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
	TWA	1 mg/m3	

Denmark. Exposure Limit Values

Components	Type	Value	
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	TLV	68 mg/m3	
		10 ppm	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	TWA	67,5 mg/m3	
		10 ppm	
Sodium Hydroxide (CAS 1310-73-2)	TWA	1 mg/m3	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of September 2001)

Components	Type	Value
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Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³
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Finland. Workplace Exposure Limits

Components	Type	Value
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2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	TWA	68 mg/m ³
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Sodium Hydroxide (CAS 1310-73-2)	Ceiling	10 ppm 2 mg/m ³
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France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
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2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	VLE	101,2 mg/m ³
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	VME	15 ppm 67,5 mg/m ³ 10 ppm 2 mg/m ³
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Sodium Hydroxide (CAS 1310-73-2)	VME	2 mg/m ³
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Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
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2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	TWA	67 mg/m ³	Vapor and aerosol.
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		10 ppm	Vapor and aerosol.
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Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
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2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	AGW	67 mg/m ³	Vapor and aerosol.
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		10 ppm	Vapor and aerosol.
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Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value
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2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m ³
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	TWA	15 ppm 67,5 mg/m ³ 10 ppm 2 mg/m ³
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Sodium Hydroxide (CAS 1310-73-2)	STEL	2 mg/m ³
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	TWA	2 mg/m ³
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Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
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2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m ³
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	TWA	67,5 mg/m ³
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Sodium Hydroxide (CAS 1310-73-2)	STEL	2 mg/m ³
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	TWA	2 mg/m ³
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Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value
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2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m ³
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	TWA	15 ppm 67,5 mg/m ³
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		10 ppm
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Sodium Hydroxide (CAS 1310-73-2)	STEL	2 mg/m ³
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Ireland. Occupational Exposure Limits

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m ³
	TWA	15 ppm 67,5 mg/m ³ 10 ppm
Sodium Hydroxide (CAS 1310-73-2)	STEL	2 mg/m ³

Italy. Occupational Exposure Limits

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m ³
	TWA	15 ppm 67,5 mg/m ³ 10 ppm
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m ³
	TWA	15 ppm 67,5 mg/m ³ 10 ppm
Sodium Hydroxide (CAS 1310-73-2)	TWA	0,5 mg/m ³

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	200 mg/m ³
	TWA	30 ppm 100 mg/m ³ 15 ppm
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m ³
	TWA	15 ppm 67,5 mg/m ³ 10 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m ³
	TWA	15 ppm 67,5 mg/m ³ 10 ppm

Netherlands. OELs (binding)

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	100 mg/m ³
	TWA	50 mg/m ³

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	TLV	68 mg/m ³
		10 ppm

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	100 mg/m3
	TWA	67 mg/m3
Sodium Hydroxide (CAS 1310-73-2)	STEL	1 mg/m3
	TWA	0,5 mg/m3

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m3
	TWA	15 ppm 67,5 mg/m3 10 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	250 mg/m3
	TWA	150 mg/m3
Sodium Hydroxide (CAS 1310-73-2)	STEL	3 mg/m3
	TWA	1 mg/m3

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m3
	TWA	15 ppm 67,5 mg/m3 10 ppm
Sodium Hydroxide (CAS 1310-73-2)	TWA	2 mg/m3

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	TWA	67,5 mg/m3	
Sodium Hydroxide (CAS 1310-73-2)	TWA	10 ppm 2 mg/m3	Inhalable fraction.

Spain. Occupational Exposure Limits

Components	Type	Value
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m3
	TWA	15 ppm 67,5 mg/m3 10 ppm
Sodium Hydroxide (CAS 1310-73-2)	STEL	2 mg/m3

Sweden. Occupational Exposure Limit Values

Components	Type	Value	Form
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	200 mg/m3	

Sweden. Occupational Exposure Limit Values			
Components	Type	Value	Form
Sodium Hydroxide (CAS 1310-73-2)	TWA	30 ppm 100 mg/m3	
	Ceiling	15 ppm 2 mg/m3	Inhalable dust.
	TWA	1 mg/m3	Inhalable dust.
Switzerland. SUVA Grenzwerte am Arbeitsplatz			
Components	Type	Value	Form
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101 mg/m3	
Sodium Hydroxide (CAS 1310-73-2)	TWA	15 ppm 67 mg/m3	
	STEL	10 ppm 2 mg/m3	Inhalable dust.
	TWA	2 mg/m3	Inhalable dust.
UK. EH40 Workplace Exposure Limits (WELs)			
Components	Type	Value	
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m3	
Sodium Hydroxide (CAS 1310-73-2)	TWA	15 ppm 67,5 mg/m3	
	STEL	10 ppm 2 mg/m3	
EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU			
Components	Type	Value	
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	STEL	101,2 mg/m3	
	TWA	15 ppm 67,5 mg/m3 10 ppm	
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Recommended monitoring procedures	Follow standard monitoring procedures.		
Derived no-effect level (DNEL)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
8.2. Exposure controls			
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
Individual protection measures, such as personal protective equipment			
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.		
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.		
Skin protection			
- Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
- Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

Environmental exposure controls Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Cloudy.
Physical state	Liquid.
Form	Liquid. Slightly Viscous Liquid.
Color	Tan.
Odor	Slight.
Odor threshold	Not available.
pH	13
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	900 cP
Viscosity temperature	68 °F (20 °C)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
9.2. Other information	
Density	9,20 lbs/gal
VOC (Weight %)	0 % by weight

SECTION 10: Stability and reactivity

10.1. Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Do not mix with other chemicals. Contact with incompatible materials.
10.5. Incompatible materials	Strong acids. Acids. Oxidizing agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.

Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

11.1. Information on toxicological effects

Components	Species	Test Results
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2700 mg/kg
Oral		
LD50	Guinea pig	2000 mg/kg
	Mouse	2400 mg/kg
	Rabbit	2200 mg/kg
	Rat	4500 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.
Skin sensitization	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)		
<u>Aquatic</u>		
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>) 1300 mg/l, 96 hours
Sodium Hydroxide (CAS 1310-73-2)		
<u>Aquatic</u>		
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>) 125 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability No data is available on the degradability of this product.

12.3. Bioaccumulative potential No data available.

Partition coefficient
n-octanol/water (log Kow)
2-(2-Butoxyethoxy)ethanol 0,56

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not available.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S (Sodium Hydroxide)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Hazard No. (ADR)	88
Tunnel restriction code	E
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S (Sodium Hydroxide)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S (Sodium Hydroxide)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S (Sodium Hydroxide)
14.3. Transport hazard class(es)	
Class	8

Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	No.
ERG Code	8L
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S (Sodium Hydroxide)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

ADN; ADR; IATA; IMDG; RID



The Hazardous Approval Number for this Group
Standard is: HSR002526
Cleaning products (Corrosive) Group Standard 2006

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
Not listed.
- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended
Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
Not listed.

Authorizations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
Not listed.

Restrictions on use

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)

Sodium Hydroxide (CAS 1310-73-2)

Directive 94/33/EC on the protection of young people at work, as amended

Sodium Hydroxide (CAS 1310-73-2)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

Revision information

Product and Company Identification: Product and Company Identification
Hazards Identification: EU Hazard Classifications
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Transport Information: Product Shipping Name/Packing Group
GHS: Classification

Training information

Follow training instructions when handling this material.

Disclaimer

Malco Automotive cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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.