

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

**1.1 Product identifier**

Product form : Liquid  
 Product name : UFC +  
 Product code : D51

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

**1.2.1. Relevant identified uses**

Main use category : industrial  
 Use of the substance/mixture : See product bulletin for detailed information.

**1.2.2. Uses advised against**

No additional information available

**1.3 Details of the supplier of the safety data sheet**

CID LINES NV  
 Waterpoortstraat, 2  
 B-8900 Ieper - Belgique  
 T + 32 57 21 78 77 - F +32 57 21 78 79  
 sds@cidlines.com - <http://www.cidlines.com>

**1.4 Emergency telephone number**

Country	Organisation/Company	Address	Emergency number
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120 Brussels	+32 70 245 245
CANADA	CANUTEC		(613) 996-6666
FINLAND	Poison Information Centre	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977
Island	Eitrunarmiðstöð Landspítall	Fossvogi 108 Reykjavik	+354 543 22 22
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
SWITZERLAND	Centre Suisse d'Information Toxicologique Swiss Toxicological Information Centre	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
USA	American Association of Poison Control Centers		1-800-222-1222
Worldwide	<a href="http://www.who.int/ipcs/poisons/centre/directory/en">www.who.int/ipcs/poisons/centre/directory/en</a>		
Ελλάδα	Poisons Information Centre Children's Hospital "Aglala, Kyriakou"	11527 Athens	+30 10 779 3777

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corr. 1A H314

Full text of H-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage

**Precautionary statements (CLP)**

- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray
- P303 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Wash with plenty of soap and water.
- P305 - IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician Specific treatment.
- P301+P330+P331+P310+P321 - IF SWALLOWED Rinse mouth Do NOT induce vomiting Immediately call a POISON CENTER or doctor/physician Specific treatment.

**2.3 Other hazards**

No additional information available

**SECTION 3: Composition/information on ingredients**

**3.1 Substance**

Not applicable

**3.2 Mixture**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5 (EC no) 203-961-6 (EC index no) 603-096-00-8 (REACH-no) 01-2119475104-44	1 - 5	Xi; R36
Sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 11-002-00-6 (REACH-no) 01-2119457892-27	1 - 5	C; R35
1-Heptanol, 2-propyl-, 7EO	(CAS No) 160875-66-1 (REACH-no) 02-2119549160-47	1 - 5	Xn; R22 Xi; R41

  

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5 (EC no) 203-961-6 (EC index no) 603-096-00-8 (REACH-no) 01-2119475104-44	1 - 5	Eye Irrit. 2, H319
Sodium hydroxide	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 11-002-00-6 (REACH-no) 01-2119457892-27	1 - 5	Skin Corr. 1A, H314
1-Heptanol, 2-propyl-, 7EO	(CAS No) 160875-66-1 (REACH-no) 02-2119549160-47	1 - 5	Eye Dam. 1, H318 Acute Tox. 4 (Oral), H302

Full text of R- and H-phrases: see section 16

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. Seek medical attention immediately.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical advice.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Seek medical attention immediately.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting because of corrosive effects. Take to hospital.

**4.2 Most important symptoms and effects, both acute and delayed**

No additional information available

**4.3 Indication of any immediate medical attention and special treatment needed**

No additional information available

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

No additional information available

**5.2 Special hazards arising from the substance or mixture**

Reactivity : Thermal decomposition generates :Corrosive vapours.

**5.3 Advice for firefighters**

- Precautionary measures fire : Exercise caution when fighting any chemical fire.
- Firefighting instructions : Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**General measures**

- Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

**6.1.1 For non-emergency personnel**

No additional information available

**6.1.2 For emergency responders**

No additional information available

**6.2 Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3 Methods and material for containment and cleaning up**

**Methods for cleaning up**

- Collect spills and put it into appropriated container.

**6.4 Reference to other sections**

No additional information available

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Precautions for safe handling**

- Ensure prompt removal from eyes, skin and clothing. Both local exhaust and general room ventilation are usually required. Avoid all unnecessary exposure.

**Hygiene measures**

- Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage conditions**

- Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Do not store in corrodable metal.

**7.3 Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

<b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>		
Belgium	Limit value (mg/m³)	67,5 mg/m³
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m³)	101,2 mg/m³
Belgium	Short time value (ppm)	15 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	67 mg/m³
Germany	TRGS 900 Occupational exposure limit value (ppm)	10 ppm
Germany	Remark (TRGS 900)	EU,DFG,Y,11
United Kingdom	WEL TWA (mg/m³)	67,5 mg/m³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m³)	101,2 mg/m³
United Kingdom	WEL STEL (ppm)	15 ppm
<b>Sodium hydroxide (1310-73-2)</b>		
Austria	MAK (mg/m³)	2 mg/m³ (einatembare Fraktion)
Austria	MAK Short time value (mg/m³)	4 mg/m³ max. 8x5 min./Schicht (einatembare Fraktion) (gemessen als Momentanwert)
Belgium	Limit value (mg/m³)	2 mg/m³
Belgium	Remark (BE)	M
France	VLE (mg/m³)	2 mg/m³
Italy - Portugal - USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	2 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³
Spain	VLA-EC (mg/m³)	2 mg/m³
Switzerland	VLE (mg/m³)	2 mg/m³
Switzerland	VME (mg/m³)	2 mg/m³
United Kingdom	WEL STEL (mg/m³)	2 mg/m³
Finland	HTP-arvo (15 min)	2 mg/m³

<b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	101,2 mg/m³
Long-term - systemic effects, dermal	20 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	67,5 mg/m³
Long-term - local effects, inhalation	67,5 mg/m³
<b>DNEL/DMEL (General population)</b>	
Acute - local effects, inhalation	50,6 mg/m³
Long-term - systemic effects, oral	1,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	34 mg/m³
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - local effects, inhalation	34 mg/m³
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	1 mg/l Assessment factor: 100
PNEC aqua (marine water)	0,1 mg/l Assessment factor: 1000
PNEC aqua (intermittent, freshwater)	3,9 mg/l Assessment factor: 100
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	4 mg/kg dwt
PNEC sediment (marine water)	0,4 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,4 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	0,000056 kg/kg food Assessment factor: 90
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	200 mg/l Assessment factor: 10
<b>Sodium hydroxide (1310-73-2)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - local effects, inhalation	1 mg/m³
<b>DNEL/DMEL (General population)</b>	
Long-term - local effects, inhalation	1 mg/m³

**8.2 Exposure controls**

- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Eye protection : Chemical goggles or face shield with safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Approved dust or mist respirator should be used if airborne particles are generated when handling this material.



Other information : When using, do not eat, drink or smoke. Provide local exhaust or general room ventilation.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- Physical state : Liquid
- Colour : Clear, dark blue.
- Odour : No data available
- Odour threshold : No data available
- pH : ca 12 (1%)
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available

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Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ca 1,1
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2 Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Thermal decomposition generates :Corrosive vapours.

### 10.2 Chemical stability

No additional information available

### 10.3 Possibility of hazardous reactions

No additional information available

### 10.4 Conditions to avoid

No additional information available

### 10.5 Incompatible materials

Avoid contact with :Strong alkalis.

### 10.6 Hazardous decomposition products

Thermal decomposition generates :Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity	: Corrosive.
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: ca 12 (1%)
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: ca 12 (1%)
Respiratory or skin sensitisation	: Corrosive.
Germ cell mutagenicity	: No data available.
Carcinogenicity	: No data available.
Reproductive toxicity	: No data available.
Specific target organ toxicity (single exposure)	: No data available.
Specific target organ toxicity (repeated exposure)	: No data available.
Aspiration hazard	: No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

No additional information available

### 12.2 Persistence and degradability

UFC +	
Persistence and degradability	Biodegradable.

### 12.3 Bioaccumulative potential

No additional information available

### 12.4 Mobility in soil

No additional information available

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### 12.5 Results of PBT and vPvB assessment

No additional information available

### 12.6 Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1 UN number

UN-No. (ADR) : 3267

### 14.2 UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

Transport document description (ADR) : UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Sodium hydroxide), 8, III, (E)

### 14.3 Transport hazard class(es)

Class (ADR) : 8

Danger labels (ADR) : 8



### 14.4 Packing group

Packing group (UN) : III

### 14.5 Environmental hazards

Other information : Clean up even minor leaks or spills if possible without unnecessary risk.

### 14.6 Special precautions for user

Special transport precautions : The driver shall not attempt to deal with any fire of the load. No naked lights. No smoking. Keep public away from danger area. NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Classification code (ADR) : C7

Orange plates



Tunnel restriction code (ADR) : E

LQ : LQ07

Excepted quantities (ADR) : E1

EAC code : 2X

APP code : B

#### 14.6.2. Transport by sea

Ship Safety Act : Corrosive substances

Port Regulation Law : Corrosive substances

MFAG-No : 154

#### 14.6.3. Air transport

Instruction "cargo" (ICAO) : Packaging instructions cargo : 856

Instruction "passenger" (ICAO) : Packaging instructions passenger: 852

Civil Aeronautics Law : Corrosive substances

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

Not applicable

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## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

UFC + is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations  Ensure all national/local regulations are observed.

##### 15.1.2. National regulations

No additional information available

#### 15.2 Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
R22	Harmful if swallowed
R35	Causes severe burns
R36	Irritating to eyes
R41	Risk of serious damage to eyes
C	Corrosive
Xi	Irritant
Xn	Harmful

SDS EU CLP DPD

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*