

# Lösemittelgemisch zur Bestimmung der Bromzahl unter 0,5g/100g

Revision date: 31.05.2022

Product code: 26712

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

#### 1.1. Product identifier

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company name:	Fa. Bernd Kraft GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
e-mail:	info@berndkraft.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
e-mail:	produktsicherheit@berndkraft.de	
Internet:	www.berndkraft.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMTR	EC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and C	anada: +1 703-741-5970 (collect calls

#### Further Information

This product is a mixture. REACH Registration Number see section 3.

accepted)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Flam. Liq. 2; H225 Skin Corr. 1B; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

#### Regulation (EC) No 1272/2008

Hazard components for labelling acetic acid

Signal word:

Pictograms:



# Hazard statements

H225 H290 Highly flammable liquid and vapour. May be corrosive to metals.



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H314	Causes severe skin burns and eye damage.	
Precautionary statemen	its	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	

#### 2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation				
64-19-7	acetic acid				
	200-580-7	607-002-00-6	01-2119475328-30		
	Flam. Liq. 3, Skin Corr. 1	A; H226 H314			
67-63-0	propan-2-ol; isopropyl al	cohol; isopropanol		10 - < 15 %	
	200-661-7	603-117-00-0			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336				

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. L	Limits, M-factors and ATE			
64-19-7	200-580-7	acetic acid			
		0 = 11,4 mg/l (vapours); oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - . 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >=			

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

# After inhalation

# Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.



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#### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

#### Unsuitable extinguishing media

no restriction

#### 5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges. Corrosive to metals.

# For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.



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#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

#### 6.3. Methods and material for containment and cleaning up

For containment

#### Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# Further information on storage conditions

Keep cool. Protect from sunlight.

#### 7.3. Specific end use(s)

Laboratory chemicals

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

#### 8.1. Control parameters



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# Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	
		20	50		STEL (15 min)	
67-63-0	Propan-2-ol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	

# **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-63-0	2-Propanol	Acetone	40 mg/L		End of shift at end of workweek

#### **DNEL/DMEL** values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
64-19-7	acetic acid					
Worker DNE	L, long-term	inhalation	local	25 mg/m³		
Worker DNE	L, acute	inhalation	local	25 mg/m³		
Consumer D	NEL, long-term	inhalation	local	25 mg/m³		
Consumer D	NEL, acute	inhalation	local	25 mg/m³		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
Worker DNE	L, long-term	inhalation	systemic	500 mg/m³		
Worker DNE	L, long-term	dermal	systemic	888 mg/kg bw/day		
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³		
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day		
Consumer D	NEL, long-term	oral	systemic	26 mg/kg bw/day		



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PNEC values

CAS No	Substance	
Environmen	tal compartment	Value
64-19-7	acetic acid	
Freshwater		3,058 mg/l
Freshwater	(intermittent releases)	30,58 mg/l
Marine wate	r	0,306 mg/l
Freshwater	sediment	11,36 mg/kg
Marine sedi	ment	1,136 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	85 mg/l
Soil		0,47 mg/kg
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
Freshwater		140,9 mg/l
Freshwater	(intermittent releases)	140,9 mg/l
Marine wate	r	140,9 mg/l
Freshwater	sediment	552 mg/kg
Marine sedi	ment	552 mg/kg
Secondary p	poisoning	160 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	2251 mg/l
Soil		28 mg/kg

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

# Individual protection measures, such as personal protective equipment

#### Eye/face protection

goggles Face protection umbrella

# Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data



#### an analyti**chem** company

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

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sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

#### **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour:	Liquid clear	
Odour threshold:	No data available	
<b>Changes in the physical state</b> Melting point/freezing point: Boiling point or initial boiling point and boiling range:		No data available >35 °C
Sublimation point: Softening point: Pour point:		No data available No data available No data available
:		No data available
Flash point:		<21 °C
Flammability Solid/liquid: Gas: Explosive properties		not applicable not applicable
Vapours are heavier than air, spread a	along floors and form explosive m	ixtures with air.
	along floors and form explosive m	ixtures with air. No data available No data available
Vapours are heavier than air, spread a Lower explosion limits:	along floors and form explosive m	No data available
Vapours are heavier than air, spread a Lower explosion limits: Upper explosion limits:	along floors and form explosive m	No data available No data available
Vapours are heavier than air, spread a Lower explosion limits: Upper explosion limits: Auto-ignition temperature: Self-ignition temperature Solid:	along floors and form explosive m	No data available No data available No data available No data available
Vapours are heavier than air, spread a Lower explosion limits: Upper explosion limits: Auto-ignition temperature: Self-ignition temperature Solid: Gas:	along floors and form explosive m	No data available No data available No data available No data available No data available
Vapours are heavier than air, spread a Lower explosion limits: Upper explosion limits: Auto-ignition temperature: Self-ignition temperature Solid: Gas: Decomposition temperature:	along floors and form explosive m	No data available No data available No data available No data available No data available No data available
Vapours are heavier than air, spread a Lower explosion limits: Upper explosion limits: Auto-ignition temperature: Self-ignition temperature Solid: Gas: Decomposition temperature: pH-Value:	along floors and form explosive m	No data available No data available No data available No data available No data available No data available
Vapours are heavier than air, spread a Lower explosion limits: Upper explosion limits: Auto-ignition temperature: Self-ignition temperature Solid: Gas: Decomposition temperature: pH-Value: Viscosity / dynamic:	along floors and form explosive m	No data available No data available No data available No data available No data available No data available No data available
Vapours are heavier than air, spread a Lower explosion limits: Upper explosion limits: Auto-ignition temperature: <b>Self-ignition temperature</b> Solid: Gas: Decomposition temperature: pH-Value: Viscosity / dynamic: Viscosity / kinematic:	along floors and form explosive m	No data available No data available



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Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density:	0,99822 g/cm³	
Bulk density:	No data available	
Relative vapour density:	No data available	
2. Other information		
Information with regard to physical hazard clas	ses	
Oxidizing properties Not oxidising.		
Other safety characteristics		
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	No data available	
Evaporation rate:	No data available	
Further Information		
No data available		

#### 10.1. Reactivity

Corrosive to metals. Highly flammable.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Oxidising agent

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

# 10.5. Incompatible materials

Keep away from: Metal.

# 10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

#### **Further information**

No data available

#### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source		Method
64-19-7	acetic acid						
	oral LD50 3310 mg/kg		Rat	J Ind Hyg Toxico 23, PP 78-82 (19		The sodium salt of acetic acid was admin	
	inhalation (4 h) vapour	LC50	11,4 mg/l	Rat	Study report (19	80)	OECD Guideline 403

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

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.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### Practical experience

There are no data available on the mixture itself.

# 11.2. Information on other hazards

#### Other information

There are no data available on the mixture itself.

#### **Further information**

There are no data available on the mixture itself.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
64-19-7	acetic acid						
	Acute fish toxicity	LC50 mg/l	> 1000	96 h	Oncorhynchus mykiss	Study report (2005)	other: SOP E257
	Acute algae toxicity	ErC50 mg/l	> 1000		Skeletonema costatum	Study report (2005)	ISO 10253
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (1990)	OECD Guideline 202
67-63-0	propan-2-ol; isopropyl alc	ohol; isopro	panol				
	Acute fish toxicity	LC50 mg/l	10000	96 h	Pimephales promelas	Publication (1983)	OECD Guideline 203

#### 12.2. Persistence and degradability



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There are no data available on the mixture itself.

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-19-7	acetic acid	-0,17
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05

#### BCF

CAS No	Chemical name	BCF	Species	Source
64-19-7	acetic acid	3,16	fish	Environ. Toxicol. Ch

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. There are no data available on the mixture itself.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

#### Further information

Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:	UN 2924
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetic acid, propan-2-ol; isopropyl alcohol; isopropanol)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+8
Classification code:	FC
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	338
Tunnel restriction code:	D/E



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Inland waterways transport (ADN)		
14.1. UN number or ID number:	UN 2924	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetic acid, propan-2-ol; isopropyl alcohol; isopropanol)	
<u>14.3. Transport hazard class(es):</u>	3	
14.4. Packing group:	ll	
Hazard label:	3+8	
Classification code:	FC	
Special Provisions:	274	
Limited quantity:	1 L	
Excepted quantity:	E2	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 2924	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetic acid, propan-2-ol; isopropyl alcohol; isopropanol)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:		
Hazard label:	3+8	
Special Provisions:	274	
Limited quantity:	1L	
Excepted quantity:	E2	
EmS:	F-E, S-C	
Air transport (ICAO-TI/IATA-DGR)	, -	
14.1. UN number or ID number:	UN 2924	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetic acid, propan-2-ol; isopropyl alcohol; isopropanol)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:		
Hazard label:	3+8	
Special Provisions:	A3	
Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y340	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:	352	
IATA-max. quantity - Passenger:	1 L	
IATA-packing instructions - Cargo:	363	
IATA-max. quantity - Cargo:	5 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
<u>14.6. Special precautions for user</u> Warning: Combustible liquid. strongly <u>14.7. Maritime transport in bulk according t</u> not applicable		
SECTION 15: Regulatory information		
	ulations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII)	:	
Entry 3, Entry 40		

(SEVESO III):

Information according to 2012/18/EU

P5c FLAMMABLE LIQUIDS



Losenniteigennisch zur Destimmung der Dromzum unter 0,09/1009				
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National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according t work protection guideline' (94/33/EC).	to the 'juvenile		
Water hazard class (D):	1 - slightly hazardous to water			
SECTION 16: Other information				

#### Changes

This data sheet contains changes from the previous version in section(s): 1.

#### Abbreviations and acronyms

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 Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

#### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)