

according to UK REACH Regulation

Barium perchlorate solution 0.005 mol/l - 0.005 N solution in 2-propanol / water Reag. Ph. Eur., cha						
Revision date: 28.03.2023	Product code: 25092	2	Page 1 of 14			
SECTION 1: Identification of the	e substance/mixture and of the comp	any/undertaking				
1.1. Product identifier						
Barium perchlorate solution (0.005 mol/l - 0.005 N solution in 2-propano	I / water Reag. Ph. Eur., cha				
UFI:	T8G7-42VY-P00N-W091					
1.2. Relevant identified uses of the	e substance or mixture and uses advised	<u>against</u>				
	stances as such or in preparations at indus main (administration, education, entertainn					
Uses advised against						
Do not use for private purpos	ses (household).					
1.3. Details of the supplier of the s	afety data sheet					
Company name:	AnalytiChem GmbH					
Street:	Stempelstraße 6					
Place:	D-47167 Duisburg					
Telephone:	0203/5194-0	Telefax:0203/5194-290				
e-mail:	info@analytichem.de					
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117				
e-mail:	produktsicherheit@analytichem.de					
Internet:	www.analytichem.de					
Responsible Department:	Abteilung Produktsicherheit					
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangero Exposure, or Accident Call CHEMTRI 1-800-424-9300 Outside USA and Ca accepted)	EC Day or Night Within USA and Canada	a:			
Further Information						
inapplicable, this product is a	a mixture REACH registration number see	section 3				

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation Flam. Liq. 2; H225 Eve Irrit 2: H319

Eye Irrit. 2; H319 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

Danger

2.2. Label elements

GB CLP Regulation

Hazard components for labelling propan-2-ol; isopropyl alcohol; isopropanol

Signal word:

Pictograms:





R

according to UK REACH Regulation

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Hazard statements						
H225	Highly flammable liquid and vapour.					
H319	Causes serious eye irritation.					
H336	May cause drowsiness or dizziness.					
Precautionary statemen	its					
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.					
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.					
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
P337+P313	If eye irritation persists: Get medical advice/attention.					
P403+P235	Store in a well-ventilated place. Keep cool.					

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Reg	gulation)		
67-63-0	propan-2-ol; isopropyl alcoł	nol; isopropanol		40 - < 45 %
	200-661-7			
	Flam. Liq. 2, Eye Irrit. 2, ST			
64-17-5	ethanol	5 - < 10 %		
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H2	25 H319	•	
64-19-7	acetic acid	1 - < 5 %		
	200-580-7	607-002-00-6	01-2119475328-30	
	Flam. Liq. 3, Skin Corr. 1A;			

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.					
64-17-5	200-578-6	ethanol	5 - < 10 %			
	inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 - 100					
64-19-7	200-580-7	acetic acid	1 - < 5 %			
		:50 = 11,4 mg/l (vapours); oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - rr. 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



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4.1. Description of first aid measures

General information No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

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

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant Dizziness The product causes narcotic-like effects. Inebriation Vomiting

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

No data 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 liquid.

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide Beware of reignition.

5.3. Advice for firefighters

Remove persons to safety. Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Suppress gases/vapours/mists with water spray jet.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



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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.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

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 vapour/aerosol. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.



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Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

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

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

Draw up and observe skin protection programme.

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances. national regulations

Further information on storage conditions

Vapours may form explosive mixtures with air.

7.3. Specific end use(s)

Laboratory use Laboratory chemical

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	WEL
		20	50		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
Worker DNEL	, long-term	inhalation	systemic	500 mg/m ³
Worker DNEL	, long-term	dermal	systemic	888 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	89 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	319 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	26 mg/kg bw/day
64-17-5	ethanol			
Worker DNEL	, long-term	inhalation	systemic	950 mg/m³
Worker DNEL	, long-term	dermal	systemic	343 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	114 mg/m ³
Consumer DN	IEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	87 mg/kg bw/day
64-19-7	acetic acid			
Worker DNEL	, long-term	inhalation	local	25 mg/m³
Worker DNEL	, acute	inhalation	local	25 mg/m³
Consumer DN	IEL, long-term	inhalation	local	25 mg/m³
Consumer DN	IEL, acute	inhalation	local	25 mg/m ³



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PNEC values

CAS No	Substance			
Environmen	tal compartment	Value		
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 sedir	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		
64-17-5	ethanol			
Freshwater	0,96 mg/l			
Freshwater	(intermittent releases)	2,75 mg/l		
Marine wate	r	0,79 mg/l		
Freshwater	sediment	3,6 mg/kg		
Marine sedir	ment	2,9 mg/kg		
Secondary p	poisoning	380 mg/kg		
Micro-organ	isms in sewage treatment plants (STP)	580 mg/l		
Soil		0,63 mg/kg		
64-19-7	acetic acid			
Freshwater		3,058 mg/l		
Freshwater	(intermittent releases)	30,58 mg/l		
Marine water 0,				
Freshwater	sediment	11,36 mg/kg		
Marine sedii	ment	1,136 mg/kg		
Micro-organ	isms in sewage treatment plants (STP)	85 mg/l		
Soil		0,47 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

Suitable eye protection: goggles.

Hand protection

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min



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By short-term hand contact Trade name/designation: KCL 720 Camapren® Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 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 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

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	like: Alcohol	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		>35 °C
boiling range:		
Flammability:		not applicable
		not applicable
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		<21 °C
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		3,7
Viscosity / kinematic:		No data available
Water solubility:		No data available
Solubility in other solvents		
No data available		
Partition coefficient n-octanol/water:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
2. Other information		

9.2. Other information

Information with regard to physical hazard classes



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Explosive properties					
Vapours can form explosive mixtures with air.					
Sustaining combustion:	Sustaining combustion				
Self-ignition temperature					
Solid:	not applicable				
Gas:	not applicable				
Oxidizing properties					
Not oxidising.					
Other safety characteristics					
Evaporation rate:	No data available				
Solvent separation test:	No data available				
Solvent content:	No data available				
Solid content:	No data available				
Sublimation point:	No data available				
Softening point:	No data available				
Pour point:	No data available				
No data available:					
Viscosity / dynamic: (at 20 °C)	No data available				
Flow time:	No data available				
Further Information					
No data available					

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours can form explosive mixtures with air.

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

Rubber articles

Plastic articles

10.6. Hazardous decomposition products

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

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 S		Source	Method			
64-17-5	ethanol								
	oral LD50 10470 Rat Study report (1976) OECD Guide								
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	Study report (1980)	OECD Guideline 403			
64-19-7	acetic acid								
	oral	LD50 mg/kg	3310	Rat	J Ind Hyg Toxicol, Vol 23, PP 78-82 (194	The sodium salt of acetic acid was admin			
	inhalation (4 h) vapour	LC50	11,4 mg/l	Rat	Study report (1980)	OECD Guideline 403			

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

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

Irritant Dizziness The product causes narcotic-like effects. Inebriation Vomiting

Further information

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol								
	Acute fish toxicity	LC50 mg/l	10000	96 h	Pimephales promelas	Publication (1983)	OECD Guideline 203		
64-17-5	ethanol								
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975		
	Acute algae toxicity	ErC50 22000 mg/l	ca.	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11		
	Algae toxicity	NOEC mg/l	5400	5 d	Skeletonema costatum	Environ Toxicol Chem 8(5):451-455. (1989	Study to determine the sensitivity of a		
	Crustacea toxicity	NOEC	2 mg/l	10 d	Ceriodaphnia dubia	Arch Environ Contam Toxicol 20(2):211-21	Follows the basic methodology for the th		
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		

12.2. Persistence and degradability

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		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
64-17-5	ethanol	-0,77		
64-19-7	acetic acid	-0,17		

BCF

CAS No	Chemical name	BCF	Species	Source
64-17-5	ethanol	1	Cyprinus carpio	Comparative Biochemi
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 UK REACH. There are no data available on the mixture itself.



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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 allow to enter into surface water or drains.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

UN 1993
FLAMMABLE LIQUID, N.O.S. (propan-2-ol, ethanol)
3
II
3
F1
274 601 640D
1 L
E2
2
33
D/E
UN 1993
FLAMMABLE LIQUID, N.O.S. (propan-2-ol, ethanol)
3
11
3
F1
274 601 640D
1 L
E2
UN 1993
FLAMMABLE LIQUID, N.O.S. (propan-2-ol, ethanol)
3
II
3
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Limited quantity:	1 L			
Excepted quantity:	E2			
EmS:	F-E, S-E			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	UN 1993			
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (propan-2-ol, ethanol)			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	II			
Hazard label:	3			
Special Provisions:	A3			
Limited quantity Passenger:	1 L			
Passenger LQ:	Y341			
Excepted quantity:	E2			
IATA-packing instructions - Passenger:	353			
IATA-max. quantity - Passenger:	5 L			
IATA-packing instructions - Cargo:	364			
IATA-max. quantity - Cargo:	60 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
14.6. Special precautions for user Warning: Combustible liquid.				
14.7. Maritime transport in bulk according to not applicable	IMO instruments			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture			
EU regulatory information	······································			
Restrictions on use (REACH, annex XVII):				
Entry 3, Entry 40				
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile			
Water hazard class (D):	work protection guideline' (94/33/EC). 1 - slightly hazardous to water			
15.2. Chemical safety assessment	<u> </u>			
For this substance a chemical safety as	ssessment has not been carried out.			
SECTION 16: Other information				

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%



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LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

- H226 Flammable liquid and vapour.
- H314 Causes severe skin burns and eve 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 information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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