

according to UK REACH Regulation

## Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 1 of 14

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

### 1.1. Product identifier

Potassium Chloride Solution, alkaline with 1,5 % NaCl

UFI: VU1M-K1KP-400A-7T26

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

#### Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

#### Uses advised against

Any non-intended use.

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

Company name: MORPHISTO GmbH Street: Schumannstr. 144 Place: D-63069 Offenbach

Telephone: +49 (0) 69 / 400 3019-60 Telefax: +49 (0) 69 / 400 3019-64

E-mail: info@morphisto.de Contact person: Morphisto GmbH

E-mail: gefahrstoffmanagement@morphisto.de

Internet: http://www.morphisto.de

**1.4. Emergency telephone** Morphisto GmbH, Tel: +49(0)69 400 3019-60, Mo-Fr.: 09-16 Uhr

number:

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

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Flam. Liq. 2; H225 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

## **GB CLP Regulation**

Signal word: Danger

Pictograms:





#### **Hazard statements**

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

# **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

# Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger



according to UK REACH Regulation

# Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 2 of 14

### Pictograms:





## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

# **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 Re	gulation)	•	
64-17-5	ethanol			70 - < 75 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H	225 H319		
67-63-0	2-propanol			< 1 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, S	TOT SE 3; H225 H319 H336		
78-93-3	butanone			< 1 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, S	TOT SE 3; H225 H319 H336 EUH	066	
3734-33-6	Denatoniumbenzoate			< 1 %
	223-095-2			
	Acute Tox. 4, Acute Tox. 4 H412	, Skin Irrit. 2, Eye Dam. 1, Aquatic	Chronic 3; H332 H302 H315 H318	

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	Limits, M-factors and ATE	
64-17-5	200-578-6	ethanol	70 - < 75 %
		C50 = 124,7 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 rit. 2; H319: >= 50 - 100	
67-63-0	200-661-7	2-propanol	< 1 %
	dermal: LD50	) = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
78-93-3	201-159-0	butanone	< 1 %
	dermal: LD50	) = >2000 mg/kg; oral: LD50 = 2054 mg/kg	
3734-33-6	223-095-2	Denatoniumbenzoate	< 1 %
		TE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = oral: ATE = 500 mg/kg	





according to UK REACH Regulation

### Potassium Chloride Solution, alkaline with 1.5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 3 of 14

#### **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

### **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. Take off contaminated clothing. Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After inhalation

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

#### 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.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Call a doctor if you feel unwell.

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

Acute effects: Mucous membrane irritation after eye contact or inhalation.

Delayed effects: Impairment of inhibitory functions of the central nervous system, skin redness, nausea after ingestion of large amounts.

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

Treat symptomatically. Percutaneously absorbed and inhaled substance causes next to irritation of affected mucous membranes only an indicated impairment of the inhibitory functions of the central nervous system, clinically recognizable as the beginning of a euphoric stage. At the same time face and skin redness is caused by dilation of peripheral blood vessels in the body.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

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

### Unsuitable extinguishing media

High power water jet.

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

Highly flammable. Vapours can form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2). In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water



according to UK REACH Regulation

### Potassium Chloride Solution, alkaline with 1.5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 4 of 14

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

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

#### General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Ventilate affected area. (refer to chapter 8.)

### For non-emergency personnel

Clear danger zone. Follow emergency plan. Consult an expert.

### For emergency responders

Move undamaged containers from immediate hazard area if it can be done safely. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not empty into drains.

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

#### For containment

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Prevent spread over a wide area (e.g. by containment or oil barriers).

### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Ventilate affected area.

### 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

Provide adequate ventilation as well as local exhaustion at critical locations. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product.

### 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. Flammable vapours can accumulate in head space of closed systems. Heating causes rise in pressure with risk of bursting. Use only antistatically equipped (spark-free) tools. Wear anti-static footwear and clothing Have fire-extinguishers in readiness before opening containers.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### Further information on handling

General protection and hygiene measures: refer to chapter 8.

### 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. Keep/Store only in original container. Protect from direct sunlight. Ensure adequate ventilation of the storage area.



according to UK REACH Regulation

# Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 5 of 14

## Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Gas. Explosive substances. Pyrophoric liquids and solids Ammonium nitrate. Self-reactive substances and mixtures: Non-combustible toxic substances. Infectious substances.

### Further information on storage conditions

Recommended storage temperature: 15 - 25°C.

# 7.3. Specific end use(s)

The product is intended for research, analysis and scientific education.

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

## 8.1. Control parameters

# **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		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

# **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

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

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64-17-5	ethanol			
Worker DNEL,	acute	inhalation	local	1900 mg/m³
Worker DNEL,	long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	950 mg/m³
Consumer DNE	EL, acute	inhalation	local	950 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	114 mg/m³
Consumer DNE	EL, long-term	oral	systemic	87 mg/kg bw/day
67-63-0	2-propanol			
Worker DNEL,	long-term	inhalation	systemic	500 mg/m³
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
Consumer DNE	EL, long-term	dermal	systemic	319 mg/kg bw/day



according to UK REACH Regulation

### Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 6 of 14

#### **PNEC values**

CAS No	Substance	
Environmen	tal compartment	Value
64-17-5	ethanol	
Freshwater		0,96 mg/l
Freshwater	(intermittent releases)	2,75 mg/l
Marine wate	г	0,79 mg/l
Marine wate	r (intermittent releases)	2,75 mg/l
Freshwater	sediment	3,6 mg/kg
Marine sedi	ment	2,9 mg/kg
Secondary poisoning		0,72 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	580 mg/l
Soil		0,63 mg/kg
67-63-0	2-propanol	
Freshwater		140,9 mg/l
Marine water		140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Secondary poisoning		160 mg/kg
Soil		28 mg/kg

### 8.2. Exposure controls







### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them.

## Individual protection measures, such as personal protective equipment

### Eye/face protection

Suitable eye protection: goggles. Eye glasses with side protection. Tightly sealed safety glasses. EN 166

### 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.

In case of prolonged or frequently repeated skin contact: Tested protective gloves are to be worn:

Suitable material: Butyl rubber. 0,5mm. Breakthrough time (maximum wearing time): >480 min.

FKM (fluoro rubber)0,4mm. Breakthrough time (maximum wearing time): >480 min.

continuous: CR (polychloroprene, chloroprene rubber) 0,5mm.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before using check leak tightness / impermeability.

### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).



according to UK REACH Regulation

## Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 7 of 14

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required. Suitable respiratory protective equipment: gas filtering equipment (EN 141). Type: A.Identification color: brown .The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### Thermal hazards

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

### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

## 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: alcoholic

Melting point/freezing point:

Boiling point or initial boiling point and

78 °C

boiling range:

Flammability: not determined Lower explosion limits: not determined Upper explosion limits: not determined Flash point: 12 °C 400 °C Auto-ignition temperature: Decomposition temperature: not determined not determined pH-Value: Viscosity / kinematic: not determined Water solubility: easily soluble (at 20 °C)

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: 58 hPa

(at 20 °C)

Vapour pressure: 293 hPa

(at 50 °C)

Density (at 20 °C): 0,84 g/cm³
Relative vapour density: not determined
Particle characteristics: not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive. Vapours can form explosive mixtures with air.

Oxidizing properties

The product is not: oxidising.

# Other safety characteristics

Evaporation rate: not determined

### **SECTION 10: Stability and reactivity**





according to UK REACH Regulation

## Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 8 of 14

#### 10.1. Reactivity

Highly flammable. 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

Explosion risk in contact with: Oxidizing agents, strong. Nitric acid. Hydrogenium peroxide. Exothermic reactions with: Alkali metals. Alkaline earth metals. Reducing agents, strong. Phosphorus oxides. Peroxides. acetic Anhydride. Nitrates.

#### 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. Keep away from heat. Protect from direct sunlight. Protect from moisture. In use may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

## 10.5. Incompatible materials

Strong acid Oxidizing agents. Alkali metals. Alkaline earth metals. Peroxides. Phosphorus oxides. Nitrogen oxides (NOx). Hydrogenium peroxide. Nitric acid. Hydrochloric acid. sulphuric acid Perchlorates. Chromium oxides. Acid chlorides. plastic and rubber.

### 10.6. Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

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

### **Acute toxicity**

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

### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



according to UK REACH Regulation

# Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 9 of 14

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
64-17-5	ethanol			•	·		
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier		
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier		
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	ECHA Dossier		
67-63-0	2-propanol						
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier		
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA Dossier		
78-93-3	butanone						
	oral	LD50 mg/kg	2054	Ratte	SDB Lieferant		
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier		
3734-33-6	Denatoniumbenzoate						
	oral	ATE mg/kg	500				
	dermal	LD50 mg/kg	>2000	Rat	suppliers SDS.		
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				

### 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

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.

### 11.2. Information on other hazards

### **Endocrine disrupting properties**

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

### Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

## 12.1. Toxicity

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



according to UK REACH Regulation

# Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 10 of 14

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
64-17-5	ethanol							
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier		
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier		
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	Ceriodaphnia dubia (water flea)	ECHA Dossier		
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	Daphnia magna	ECHA Dossier		
67-63-0	2-propanol							
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas	ECHA Dossier	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	1800	96 h	Scenedesmus quadricauda	ECHA Dossier		
	Acute crustacea toxicity	EC50 mg/l	>10000	48 h	Daphnia magna (24h)	ECHA Dossier	OECD Guideline 202	
78-93-3	butanone							
	Acute fish toxicity	LC50 mg/l	2993	96 h	Pimephales promelas	ECHA Dossier	OECD 203	
	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	OECD 201	
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD 202	
3734-33-6	Denatoniumbenzoate							
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss (Rainbow trout)	suppliers SDS.		
	Acute crustacea toxicity	EC50	13 mg/l	48 h	Daphnia magna (Big water flea)	suppliers SDS.		

# 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	(	d Source	
	Evaluation	-	-	-	
64-17-5	ethanol				
	other guideline	84%	2	0 ECHA Doss	ier
	Biodegradable.				
67-63-0	2-propanol				
	EU Method C.5/ EU Method C.6	53%	Ę	ECHA Doss	ier
	Easily biodegradable (concerning to the criteria of the	OECD)	-		
78-93-3	butanone				
		98%	2	8 ECHA Doss	ier
	Readily biodegradable (according to OECD criteria).				

# 12.3. Bioaccumulative potential

The product has not been tested.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol	-0,31
67-63-0	2-propanol	0,05
78-93-3	butanone	0,3



according to UK REACH Regulation

### Potassium Chloride Solution, alkaline with 1.5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 11 of 14

### 12.4. Mobility in soil

The product has not been tested.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

#### 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

No information available.

#### **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Hazardous waste according to Directive 2008/98/EC (waste framework directive). Consult the appropriate authorities about waste disposal. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

# List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

# List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

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

# Land transport (ADR/RID)

14.1. UN number or ID number: UN 1170

14.2. UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 144 601
Limited quantity: 1 L
Excepted quantity: E2



### according to UK REACH Regulation

## Potassium Chloride Solution, alkaline with 1,5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 12 of 14

Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1170

14.2. UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 144 601
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1170

**14.2. UN** proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:144Limited quantity:1 LExcepted quantity:E2EmS:F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1170

14.2. UN proper shipping name: ETHANOL SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: A3 A58 A180

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.





according to UK REACH Regulation

### Potassium Chloride Solution, alkaline with 1.5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 13 of 14

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to 2012/18/EU

P5c FLAMMABLE LIQUIDS

(SEVESO III):

#### Additional information

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

## National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

ethanol 2-propanol butanone

#### **SECTION 16: Other information**

#### Changes

Rev. 2,00; 28.07.2023, Individual safety data sheet based on18075\_collect

### Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

**UN: United Nations** 

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)



### according to UK REACH Regulation

### Potassium Chloride Solution, alkaline with 1.5 % NaCl

Revision date: 28.07.2023 Product code: 18075.xxxxx Page 14 of 14

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

assessment, chapter R.20 (Table of terms and abbreviations).

#### 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			

## Re

=.q. =,===	0.1. 200.0 0.1. 100.1 00.10	
Irrit. 2; H319	Calculation method	
Relevant H and EUH statements	(number and full text)	
H225 Highly 1	flammable liquid and vapour.	
H302 Harmfu	ıl if swallowed.	
H315 Causes	s skin irritation.	

Causes serious eve irritation. H319 Harmful if inhaled. H332

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Causes serious eve damage.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### **Further Information**

H318

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 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.)