acc. to Regulation (EC) No. 1907/2006 (REACH)

## Potassium dichromate solution 0,02 mol/l - 0,12 N volumetric standard solution, for COD determination

article number: **P720** Version: **2.0 en** Replaces version of: 2018-10-25 Version: (1)

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

### 1.1 Product identifier

Identification of the substance

**Potassium dichromate solution** 0,02 mol/l - 0,12 N volumetric standard solution, for COD determination

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

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Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

### e-mail (competent person):

### sicherheit@carlroth.de

### **1.4** Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### **Classification acc. to GHS**

Section	Hazard class		Hazard class and category	Hazard statement	
3.5	Germ cell mutagenicity	1B	Muta. 1B	H340	
3.6	Carcinogenicity	1B	Carc. 1B	H350	
3.7	Reproductive toxicity		Repr. 1B	H360FD	



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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

### Supplemental hazard information

Code	Supplemental hazard information
EUH208	contains Potassium dichromate. May produce an allergic reaction

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

Labelling

Signal word Danger

**Pictograms** 

GHS08



### Hazard statements

H340	May cause genetic defects
H350	May cause cancer
H360FD	May damage fertility. May damage the unborn child
H412	Harmful to aquatic life with long lasting effects

### **Precautionary statements**

### **Precautionary statements - prevention**

P202	Do not handle until all safety precautions have been read and understood
P273	Avoid release to the environment

#### **Precautionary statements - response**

P308+P313 IF exposed or concerned: Get medical advice/attention

For professional users only

### Supplemental hazard information

EUH208 Contains Potassium dichromate. May produce an allergic reaction.

Hazardous ingredients for labelling:

Potassium dichromate

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#### 2.3 Other hazards

### **Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.1 **Substances**

not relevant (mixture)

#### 3.2 Mixtures

### **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Potassium dichromate	CAS No 7778-50-9 EC No 231-906-6	< 2,5	Ox. Sol. 2 / H272 Acute Tox. 3 / H301 Acute Tox. 4 / H312 Acute Tox. 2 / H330 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Resp. Sens. 1 / H317 Muta. 1B / H340 Carc. 1B / H340 Carc. 1B / H350 Repr. 1B / H360FD STOT SE 3 / H335 STOT RE 1 / H372 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		3 GHS-HC IARC: 1 IOELV RoC "Known"

Notes

3: The concentration stated is the percentage by weight of chromate ions dissolved in water calculated with reference to the total weight of the mixture.

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI)

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer) IOELV: Substance with a community indicative occupational exposure limit value RoC NTP-RoC: Known To Be A Human Carcinogen "Known"

Name of sub- stance			M-Factors	ATE	Exposure route	
Potassium di- chromate	CAS No 7778-50-9 EC No 231-906-6	STOT SE 3; H335: C ≥ 5 %	-	67 <sup>mg</sup> / <sub>kg</sub> <2.000 <sup>mg</sup> / <sub>kg</sub> 0,083 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: dust/ mist	

### Substance of Very High Concern (SVHC)

Name of substance	Name acc. to invent- ory	CAS No	EC No	Listed in	Remarks	
Potassium dichromate	potassium dichromate	7778-50-9	231-906-6	Annex XIV	Carc. 1B Muta. 1B Repr. 1B	

#### Legend

annex XIV List of substances subject to authorisation

Carc. 1B Carcinogenic (category 1B)

Muta. 1B Repr. 1B

Mutagenic (category 1B) Toxic for reproduction (category 1B)

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For full text of abbreviations: see SECTION 16

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

### 4.1 Description of first aid measures



### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air.

#### Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

#### Following eye contact

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.

#### **Following ingestion**

Rinse mouth immediately and drink plenty of water. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Allergic reactions

Hexavalent chromium compounds: Irritation, Corrosivity, Cough, Asthmatic complaints, Cough, pain, choking, and breathing difficulties, Risk of serious damage to eyes, Risk of blindness, Following ingestion: Gastric perforation, Gastrointestinal complaints, Diarrhoea, Spasms, Cardiac arrhythmias, Unconsciousness, Methaemoglobinaemia

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Non-combustible.

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### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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



### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

### Advice on how to contain a spill

Covering of drains.

### Advice on how to clean up a spill

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

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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

### 7.1 Precautions for safe handling

Avoid exposure.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed.

### Incompatible substances or mixtures

Observe hints for combined storage.

### Consideration of other advice:

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.

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

### 8.1 Control parameters

### **National limit values**

### **Occupational exposure limit values (Workplace Exposure Limits)**

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	chromium(VI) com- pounds	7778-50- 9	IOELV		0,005					Cr, CrVI- limit	2017/ 2398/EU
GB	chromium(VI) com- pounds	7778-50- 9	WEL		0,01					Cr	EH40/ 2005
GB	chromium(VI) com- pounds	7778-50- 9	WEL		0,025					Cr, CrVI- pg	EH40/ 2005

### Notation

Hotation	
Ceiling-C Cr	Ceiling value is a limit value above which exposure should not occur Calculated as Cr (chromium)
CrVI-limit	Limit value 0,010 mg/m3 until 17 January 2025 Limit value: 0,025 mg/m3 for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025
CrVI-pg	Chromium (VI) compounds generated as a result of a work process, such as fumes from welding (process gener- ated)
STEL	Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15- minute period (unless otherwise specified)
TWA	Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### Relevant PNECs of components of the mixture

	•••••••••••••••••••••••••••••••••••••••					
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Potassium dichro- mate	7778-50-9	isms		aquatic organ- isms	freshwater	short-term (single instance)
Potassium dichro- mate	7778-50-9			aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Potassium dichro- mate	- 7778-50-9 PNEC		0,15 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Potassium dichro- mate	7778-50-9	PNEC	0,15 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Potassium dichro- mate	7778-50-9	PNEC	0,035 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)

### 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection



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Use safety goggle with side protection.

### Skin protection



### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

### • type of material

NBR (Nitrile rubber)

#### • material thickness

>0,11 mm

### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation.

### Environmental exposure controls

Keep away from drains, surface and ground water.

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

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	orange
Odour	odourless
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined

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	Flash point	not determined
	Auto-ignition temperature	not determined
	Decomposition temperature	not relevant
	pH (value)	~3,8 (20 °C)
	Kinematic viscosity	not determined
	Solubility(ies)	
	Water solubility	miscible in any proportion
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	not relevant (inorganic)
	Vapour pressure	23 hPa at 20 °C
	Density and/or relative density	
	Density	~ 1 <sup>g</sup> / <sub>cm³</sub> at 20 °C
	Relative vapour density	information on this property is not available
	Particle characteristics	not relevant (liquid)
	Other safety parameters	
	Oxidising properties	none
2	Other information	
	Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
	Other safety characteristics:	
	Miscibility	completely miscible with water

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

### 10.1 Reactivity

9.2

This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### **10.3** Possibility of hazardous reactions

Violent reaction with: Strong alkali

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

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**10.5** Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### **Classification acc. to GHS**

### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture					
Name of substance CAS No Exposure route ATE					
Potassium dichromate	7778-50-9	oral	67 <sup>mg</sup> / <sub>kg</sub>		
Potassium dichromate	7778-50-9	dermal	<2.000 <sup>mg</sup> / <sub>kg</sub>		
Potassium dichromate	7778-50-9	inhalation: dust/mist	0,083 <sup>mg</sup> / <sub>ا</sub> /4h		

### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Potassium dichromate	7778-50-9	oral	LD50	67 <sup>mg</sup> / <sub>kg</sub>	rat
Potassium dichromate	7778-50-9	inhalation: dust/mist	LC50	83 <sup>mg</sup> / <sub>m³</sub> /4h	rat
Potassium dichromate	7778-50-9	dermal	LD50	<2.000 <sup>mg</sup> / <sub>kg</sub>	rabbit

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation

Contains Potassium dichromate. May produce an allergic reaction.

### Germ cell mutagenicity

May cause genetic defects.

### Carcinogenicity

May cause cancer.

### **Reproductive toxicity**

May damage the unborn child. May damage fertility.

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### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

### If swallowed

Data are not available.

### • If in eyes

Data are not available.

### • If inhaled

Data are not available.

### • If on skin

May produce an allergic reaction, pruritis, localised redness

### • Other information

none

- **11.2 Endocrine disrupting properties** None of the ingredients are listed.
- 11.3 Information on other hazards

There is no additional information.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

### **Biodegradation**

The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.2 Process of degradability

Data are not available.

**12.3 Bioaccumulative potential** Data are not available.

# **12.4 Mobility in soil** Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

**12.6 Endocrine disrupting properties** None of the ingredients are listed.



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### 12.7 Other adverse effects

Data are not available.

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

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

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

14.1 UN number or ID number

- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

not subject to transport regulations not assigned

none

not assigned

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 14.8 <u>Information for each of the UN Model Regulations</u>

# Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG) - Additional information** Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information** Not subject to ICAO-IATA.

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

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

### **Relevant provisions of the European Union (EU)**

### **Seveso Directive**

2012/18/EU (Seveso III)				
Νο	Dangerous substance/hazard categories Qualifying quantity (tonnes) for the application of lower and upper-tier requirements Notes			
	not assigned			

### **Deco-Paint Directive**

VOC content	0 % 0 <sup>g</sup> / <sub>l</sub>

### Industrial Emissions Directive (IED)

VOC content	0 %
VOC content (Water content was discounted)	0 <sup>g</sup> /l

## Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

## Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Potassium dichromate	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	
Potassium dichromate	Metals and their compounds		a)	

#### Legend

A)

Indicative list of the main pollutants

### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

### **Regulation on drug precursors**

none of the ingredients are listed

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### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

### **Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

### National inventories

Legend

AIIC	Australian Inventory of Industrial Chemicals
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TCCA	Tauda Culastan az Canstral Ast

#### TSCA Toxic Substance Control Act

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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## **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

### Alignment to regulation:

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1		Supplemental hazard information: change in the listing (table)	yes
2.1		The most important adverse physicochemical, human health and environmental effects: Spillage and fire water can cause pollution of watercourses.	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Potassium dichromate		yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/2398/EU	Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protec- tion of workers from the risks related to exposure to carcinogens or mutagens at work
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard

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Abbr.	Descriptions of used abbreviations
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
Muta.	Germ cell mutagenicity
NLP	No-Longer Polymer
NTP-RoC	National Toxicology Program: Report on Carcinogens
Ox. Sol.	Oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitisation
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)

acc. to Regulation (EC) No. 1907/2006 (REACH)



## Potassium dichromate solution 0,02 mol/l - 0,12 N volumetric standard solution, for COD determination

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Abbr.	Descriptions of used abbreviations
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.