

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Issue Date 16-Apr-2018 Revision Date 14-Feb-2023 Version 2

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Code(s) 2197153

Product Name Potassium Dichromate Standard Solution 1.00 N

Unique Formula Identifier (UFI) P83P-45QF-T30G-XC0W

Molecular weight Not applicable

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

Recommended Use Oxidation-reduction indicator. Standard solution. Water Analysis.

Uses advised against Consumer use

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

#### Supplier

HACH UK
Laser House
Ground Floor, Suite B
Waterfront Quay, Salford Quays
GB - Manchester, M50 3XW
Tel. +44 (0) 161 872 1487
info-uk@hach.com

HACH Ireland Unit 34 GB Business Park Little Island IRL-Co. Cork T45 H681 Tel. +353 (0)146 02 522 info-ie@hach.com

#### 1.4. Emergency telephone number

UK: Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

## **Section 2: HAZARDS IDENTIFICATION**

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

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)

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Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Germ cell mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1B - (H350)
Reproductive toxicity	Category 1B - (H360FD)
Specific target organ toxicity — repeated exposure	Category 1 - (H372)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

#### 2.2. Label elements

Contains Potassium dichromate



## Signal word

Danger

#### **Hazard statements**

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- 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
- H410 Very toxic to aquatic life with long lasting effects

## Precautionary Statements - EU (§28, 1272/2008)

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- 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 or doctor/physician
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention

#### 2.3. Other hazards

No information available.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT)

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances

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Not applicable

#### 3.2 Mixtures

Chemical name	CAS No. EC No. Index No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Potassium dichromate	7778-50-9 (024-002-00-6) (024-017-00-8) 231-906-6 024-002-00-6	1 - 5%	Ox. Sol. 2 - H272 Acute Tox. 3 - H301 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Eye Dam. 1 - H318 Acute Tox. 2 - H330 Resp. Sens. 1 - H334 Muta. 1B - H340 Carc. 1B - H350 Repr. 1B - H360FD STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	STOT SE 3 :: C>=5%	10	10

## Full text of H- and EUH-phrases: see section 16

**Acute Toxicity Estimate** 

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L		Inhalation LC50 - 4 hour - gas - ppm
Potassium dichromate 7778-50-9	48 mg/kg	1170 mg/kg	0.094 mg/L	None reported	None reported

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	SVHC candidates
Potassium dichromate	7778-50-9	X

## **Section 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Inhalation Remove to fresh air. May cause allergic respiratory reaction. If breathing has stopped, give

artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use

barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.

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**Eye contact** Get immediate medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Keep eye wide open while rinsing. Do not rub affected area.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an

allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. May produce an allergic reaction. Get immediate medical attention.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more

information. Avoid breathing vapours or mists.

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

Symptoms Burning sensation. May cause allergy or asthma symptoms or breathing difficulties if

inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Difficulty in breathing.

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

**Note to doctors**May cause sensitisation in susceptible persons. Treat symptomatically.

## **Section 5: FIREFIGHTING MEASURES**

5.1. Extinguishing media

surrounding environment.

**Unsuitable extinguishing media** No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product is or contains a sensitiser. May cause sensitisation by inhalation and skin contact.

May cause sensitisation by skin contact.

Hazardous combustion products chromium oxides. This material will not burn.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Additional information Fire residues and contaminated fire extinguishing water must be disposed of in accordance

with local regulations.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

**Personal precautions**Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from

and upwind of spill/leak. Avoid breathing vapours or mists.

For emergency responders Use personal protection recommended in Section 8.

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#### 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contamina

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **Section 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of

insufficient ventilation, wear suitable respiratory equipment. Remove contaminated clothing

and shoes. Take off contaminated clothing and wash it before reuse. Avoid breathing

vapours or mists.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately

after handling the product.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Keep away from heat. Store locked up. Accessible only for authorized persons.

7.3. Specific end use(s)

Specific use(s) Analytical reagent.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

### **Exposure Limits**

Chemical name	European Union	United Kingdom	Ireland
Potassium dichromate	TWA: 0.005 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.005 mg/m <sup>3</sup>
7778-50-9	TWA: 0.010 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>
	TWA: 0.025 mg/m <sup>3</sup>	STEL: 0.03 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>
		STEL: 0.065 mg/m <sup>3</sup>	STEL: 0.15 mg/m <sup>3</sup>
		Sen+	STEL: 0.03 mg/m <sup>3</sup>
			STEL: 0.075 mg/m <sup>3</sup>

#### **Biological occupational exposure limits**

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Chemical name	European Union	United Kingdom	Ireland
Potassium dichromate	-	-	25 μg/L (urine - total
7778-50-9			Chromium end of shift at end
			of workweek)
			10 μg/L (urine - total
			Chromium increase during
			shift)

**Derived No Effect Level (DNEL)** 

No information available.

**Predicted No Effect Concentration** 

(PNEC)

No information available.

**Additional information** 

No information available.

8.2. Exposure controls

**Engineering controls** 

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374-1:2016 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III acco.

Gloves							
Duration of contact PPE - Glove material Glove thickness Break through time							
Long term (repeated)	Wear protective Viton™ gloves	0,70 mm	>480 minutes				
Short term	Wear protective nitrile rubber gloves	0,20 mm	>30 minutes				

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Avoid contact with eyes, skin and

clothing.

Respiratory protection

Ensure adequate ventilation. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and

evacuation may be required. Wear breathing apparatus if exposed to

vapours/dusts/aerosols.

Recommended filter type:

ABEK-P3.

**General hygiene considerations** 

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately

after handling the product.

**Environmental exposure controls** 

Do not allow into any sewer, on the ground or into any body of water.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

Physical state Liquid

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Colour Orange to amber

**Odour** Odourless

Odour threshold Not applicable

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight Not applicable

pH 3.9 @ 20 °C

Melting point / freezing point 0 °C / 32 °F

Initial boiling point and boiling range 100 °C / 212 °F

**Evaporation rate** 1 (water = 1)

Vapour pressure 23.627 mm Hg / 3.15 kPa at 25 °C / 77 °F

Relative vapor density 0.62

Specific Gravity 1.026

Partition coefficient No data available

**Soil Organic Carbon-Water Partition** 

Coefficient

No data available

Autoignition temperature No data available

**Dynamic viscosity** ~ 1 cP (mPa s) at 20 °C / 68 °F

Kinematic viscosity  $\sim 0.975 \text{ cSt (mm}^2\text{/s)}$  at 20 °C / 68 °F

Relative density 1.026 g/mL @ 20 °C

#### Solubility(ies)

## Water solubility

Water solubility classification	Water solubility_	Water Solubility Temperature_
Soluble	> 1000 mg/L	25 °C / 77 °F

## Solubility in other solvents

	Chemical Name	Solubility classification	Solubility	Solubility Temperature
ı	Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### **Metal Corrosivity**

Steel Corrosion Rate

No data available
Aluminum Corrosion Rate

No data available

**Explosive properties** 

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

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Flash point No data available

**Flammability** 

Upper flammability limit:No data availableLower flammability limitNo data available

Oxidising properties No data available.

Bulk density No data available

9.2. Other information

No information available.

# **Section 10: STABILITY AND REACTIVITY**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

**Hazardous polymerisation** Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Conditions to avoid Excessive heat. To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidising agent.

10.6. Hazardous decomposition products

Hazardous Decomposition Products Chromium trioxide.

# **Section 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

**Acute toxicity** 

Harmful if inhaled

Mixture No data available.

Substance Test data reported below.

**Oral Exposure Route:** 

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium dichromate	Rat	48 mg/kg	None reported	None reported	LOLI

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LD <sub>50</sub>		

#### **Dermal Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium dichromate	71		None reported	None reported	ERMA

## Inhalation (Dust/Mist) Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium dichromate	Rat LC <sub>50</sub>	0.094 mg/L	4 hours	None reported	ERMA

#### **Acute Toxicity Estimate (ATE)**

## The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,092.50 mg/kg
ATEmix (dermal)	24,482.60 mg/kg
ATEmix (inhalation-dust/mist)	1.967 mg/l

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## **Skin corrosion/irritation**

Classification based on data available for ingredients. Irritating to skin.

Mixture No data available.

Substance No data available.

## Serious eye damage/eye irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Mixture No data available.

Substance No data available.

## Respiratory or skin sensitisation

May cause sensitisation by inhalation. May cause sensitisation by skin contact.

Mixture No data available.

Substance No data available.

## STOT - single exposure

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

Mixture No data available.

Substance No data available.

#### **STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

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Mixture No data available.

Substance No data available.

## **Germ cell mutagenicity**

Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic

<u> </u>	<u> </u>		
Chemical name	European Union		
Potassium dichromate	Muta. 1B		

Mixture invitro **Data**No data available.

Substance invitro **Data** Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Potassium dichromate	Micronucleus test	Human lymphocyte	0.3 mg/L	None reported	Positive test result for mutagenicity	RTECS

Mixture invivo **Data**No data available.

Substance invivo **Data**No data available.

#### Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union		
Potassium dichromate	Carc. 1B		

Mixture No data available.

Substance No data available.

## Reproductive toxicity

Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union		
Potassium dichromate	Repr. 1B		

Mixture No data available.

Substance Test data reported below.

## **Oral Exposure Route:**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Potassium dichromate	Mouse	1710 mg/kg	19 days	Effects on Embryo or Fetus	RTECS
	$TD_Lo$			Fetotoxicity (except death e.g.	
				stunted fetus)	
				Effects on Fertility	
				Post-implantation mortality (e.g.	
				dead and/or resorbed implants	

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per total number of implants)
Specific Developmental
Abnormalities
Craniofacial (including nose and
tongue)

#### **Aspiration hazard**

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

## 11.2 Information on other hazards

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

**Mixture** 

Acute aquatic toxicity: No data available.

Aquatic Chronic Toxicity: No data available.

**Substance** 

Acute aquatic toxicity: Test data reported below.

Fish:

С	chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
	Potassium dichromate	96 hours	Oncorhynchus mykiss	LC <sub>50</sub>	12.3 mg/L	ERMA

#### Crustacea:

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium dichromate	48 Hours	Daphnia magna	EC50	0.035 mg/L	ERMA

Aquatic Chronic Toxicity: No data available.

12.2. Persistence and degradability

Mixture No data available.

12.3. Bioaccumulative potential

Mixture: No data available.

Partition coefficient No data available

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#### 12.4. Mobility in soil

Soil Organic Carbon-Water Partition

No data available

Coefficient

# 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment	
Potassium dichromate	PBT assessment does not apply	

#### 12.6. Endocrine disrupting properties

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors

#### 12.7. Other adverse effects

No information available.

Ozone: Not applicable

Ozone depletion potential (ODP): No information available

## Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

**Advice on Disposal** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Waste disposal number of waste from 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.

Waste disposal number of 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.

**Contaminated packaging**Dispose of contents/containers in accordance with local regulations.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

## **Section 14: TRANSPORT INFORMATION**

<u>IMDG</u>

**14.1 UN number or ID number** UN3082 **14.2 Proper shipping name** UN3082 Not regulated

14.3 Transport hazard class(es) 9
14.4 Packing Group ||||

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**14.5 Marine pollutant**This material meets the definition of a marine pollutant

Environmental hazards Yes

14.6 Special precautions for user EmS-No F-A, S-F

14.7. Transport in bulk according to Not applicable

Annex II of MARPOL and the IBC

Code

ADR

**14.1 UN number or ID number** UN3082

**14.2 Proper shipping name** Other regulated substances, liquid, n.o.s.

14.3 Transport hazard class(es) 9
Labels 9
14.4 Packing Group III

**Description** UN3082, Other regulated substances, liquid, n.o.s. (Potassium dichromate), 9, III, (E)

14.5 Environmental hazards Yes

14.6 Special precautions for user 274, 335, 601

Classification code M6 Tunnel restriction code (E)

IATA

**14.1 UN number or ID number** UN3082 **14.2 Proper shipping name** UN3082 Not regulated

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
ERG Code
9L

#### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## **Section 15: REGULATORY INFORMATION**

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

#### National regulations

## **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Potassium dichromate - 7778-50-9	72.	19.
	28.	
	29.	
	30.	

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75.	
47.	

**Persistent Organic Pollutants** 

Not applicable

## Dangerous substance category per Seveso Directive (2012/18/EU)

• E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### Germany

Water hazard class (WGK)

strongly hazardous to water (WGK 3)

#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Potassium dichromate	RG 10,RG 10bis,RG 10ter	-
7778-50-9	RG 10	

## **International Inventories**

EINECS/ELINCS	Complies
TSCA	Complies
DSL/NDSL	Complies
ENCS	Complies
IECSC	Complies
KECL - Existing substances	Complies
PICCS	Complies
AICS	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

**Chemical Safety Report** 

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

# **Section 16: OTHER INFORMATION**

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 Issue Date
 16-Apr-2018

 Revision Date
 14-Feb-2023

**Revision Note** New SDS, SDS sections updated, 3, 9, 11, 12.

## Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

\*\* Hazard Designation

ADN Accord européen relatif au transport international des marchandises dangereuses par voies

de navigation intérieure

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate

CAS Chemical Abstracts Service Number

Ceiling Maximum limit value

CLP Classification, Labelling and Packaging of substances and mixtures [Regulation (EC) No.

1272/2008]

DNEL Derived No Effect Level (DNEL)

EC European Community

ECHA (The European Chemicals Agency)

EC50 Effective Concentration to 50% of a test population

EEC European Economic Community

EN European Standard

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

IATA-DGR International Air Transport Association - Dangerous Goods Regulations

ICAO International Civil Aviation Organization

ICAO-TI International Civil Aviation Organization - Technical Instructions
IUCLID IUCLID (The International Uniform Chemical Information Database)
GHS Globally Harmonized System of Classification and Labelling of Chemicals

LOAEL Lowest observed adverse effect level

LOAEC Lowest observed adverse effect concentration LC50 Lethal Concentration to 50% of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
LOLI (List of Lists - An International Chemical Regulatory Database)

MAK Maximale Arbeitsplatz-Konzentration, a German expression corresponding to threshold limit

value, which relates to safe daily exposure levels to chemical substances

NOAEL NOAEL (No observed adverse effect level)
NOAEC No observed adverse effect concentration

OSHA (Occupational Safety and Health Administration of the US Department of Labour)

PEC Predicted Effect Concentration

PNEC Predicted No Effect Concentration (PNEC)

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No.

1907/2006])

RID Règlement international concernant le transport des marchandises dangereuses par chemin

de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

RTECS (Registry of Toxic Effects of Chemical Substances)

TWA TWA (time-weighted average)

SKN\* Skin designation SKN+ Skin sensitisation

STEL STEL (Short Term Exposure Limit)
STOT Specific Target Organ Toxicity

STOT RE Specific target organ toxicity — repeated exposure STOT SE Specific target organ toxicity — single exposure

SVHC Substances of Very High Concern

TLV Threshold Limit Value

TRGS Technical rules for hazardous substances, Germany

TSCA Toxic Substances Control Act

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UN United Nations

vPvB very persistent and very bioaccumulative

VOC Volatile organic compounds

AwSV Administrative regulation of water polluting substances, Germany

# Key literature references and sources for data

See Section 11: TOXICOLOGICAL INFORMATION See Section 12: ECOLOGICAL INFORMATION

#### Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

Training Advice Take note of Directive 98/24/EC on the protection of the health and safety of workers from

the risks related to chemical agents at work

**Restrictions on use** For Laboratory Use Only.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**End of Safety Data Sheet** 

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