



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Version 6.2 Revision Date 14.06.2021 Print Date 14.06.2021 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : Potassium chromate for analysis EMSURE® ACS,Reag. Ph Eur

Product Number	:	1.04952
Catalogue No.	:	104952
Brand	:	Millipore
Index-No.	:	024-006-00-8
REACH No.	:	01-2119543478-30-XXXX
CAS-No.	:	7789-00-6

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

Identified uses : Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company	:	Merck KGaA Frankfurter Str. 250 D-64271 DARMSTADT
Telephone Fax E-mail address	:	+49 (0)6151 72-0 +49 6151 727780 TechnicalService@merckgroup.com
Emergency telephone		

Emergency Phone # : +(44)-870-8200418 (CHEMTREC (GB)) +(353)-19014670 (CHEMTREC Ireland) 001-803-017-9114 (CHEMTREC India)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitization (Category 1), H317 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity, Inhalation (Category 1B), H350i Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

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1.4

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For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regu Pictogram	lation (EC) No 1272/2008
Signal word	Danger

Signal word	Danger
Hazard statement(s) H315 H317 H319 H335 H340 H350i H410	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause genetic defects. May cause cancer by inhalation. Very toxic to aquatic life with long lasting effects.
Precautionary statement(s) P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard Statements	none

Restricted to professional users.

Reduced Labeling (<= 125 ml)

Pictogram	
Signal word	Danger
Hazard statement(s) H317 H340 H350i	May cause an allergic skin reaction. May cause genetic defects. May cause cancer by inhalation.
Precautionary statement(s) P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P302 + P352 P308 + P313	IF ON SKIN: Wash with plenty of water. IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard Statements	none

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	K2CrO4
Molecular weight	:	194,2 g/mol
CAS-No.	:	7789-00-6
EC-No.	:	232-140-5
Index-No.	:	024-006-00-8

Component		Classification	Concentration
(SVHC) according to	o Regulation (EC) No. 19		-
CAS-No.	7789-00-6	Skin Irrit. 2; Eye Irrit. 2;	<= 100 %
EC-No.	232-140-5	Skin Sens. 1; Muta. 1B;	
Index-No.	024-006-00-8	Carc. 1B; STOT SE 3;	
		Aquatic Acute 1; Aquatic	
		Chronic 1; H315, H319,	
		H317, H340, H350i, H335,	
		H400, H410	
		Concentration limits:	
		>= 0,5 %: Skin Sens. 1,	
		H317;	
		M-Factor - Aquatic Acute:	
		1	
		M-Factor - Aquatic	
		Chronic: 1	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

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If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Potassium oxides Chromium oxides Not combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

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

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm

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Break through time: 480 min Material tested:KCL 741 Dermatril® L

Body Protection

protective clothing

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Color: yellow
b)	Odor	odorless
c)	Odor Threshold	Not applicable
d)	рН	8,5 - 10,0 at 50 g/l at 20 °C
e)	Melting point/freezing point	Melting point: 968,3 °C
f)	Initial boiling point and boiling range	1.000 °C
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	39,4 g/l at 30 °C 637 g/l at 20 °C
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	does not ignite

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q)	Decomposition	No data available
	temperature	

- r) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available
- s) Explosive properties No data available
- t) Oxidizing properties Oxidizing potential

9.2 Other safety information

Bulk density ca.1.400 kg/m3

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with: Reducing agents chlorates Risk of ignition or formation of inflammable gases or vapours with: organic combustible substances glycerol Exothermic reaction with: Sulfides phosphides Risk of explosion/exothermic reaction with: hydrazine and derivatives hydroxylamine oxidisable substances

10.4 Conditions to avoid

no information available

10.5 Incompatible materials No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit Result: Irritating to skin. - 4 h

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(OECD Test Guideline 404) Remarks: (in analogy to similar products)

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity - single exposure May cause respiratory irritation. - Respiratory system

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 90 Days Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: Sodium dichromate anhydrate

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Brachydanio rerio (zebrafish) - 58,5 mg/l - 96 h Remarks: (in analogy to similar products) (ECHA)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0,035 mg/l - 48 h Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: potassium dichromate
Toxicity to algae	static test ErC50 - Scenedesmus capricornutum (fresh water algae) - 0,23 mg/l - 72 h Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: Sodium chromate

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Toxicity to bacteria IC50 - activated sludge - 30 mg/l - 3 h Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: Sodium dichromate anhydrate

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

14.1	UN numb ADR/RID:	•-	IMDG: 3288	IATA: 3288
14.2	ADR/RID:	TOXIC SOLID, INO	RGANIC, N.O.S. (potassium chr RGANIC, N.O.S. (potassium chr ic, n.o.s. (potassium chromate	omate)
14.3	Transport ADR/RID:	t hazard class(es) 6.1	IMDG: 6.1	IATA: 6.1
14.4	Packagin ADR/RID:		IMDG: II	IATA: II
14.5	Environm ADR/RID:	ental hazards yes	IMDG Marine pollutant: yes	IATA: no
14.6	Special p No data av	recautions for use vailable	r	

No data available

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SECTION 15: Regulatory information

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

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

Authorisations and/or restrictions on use

REACH - Candidate List of Substances of Very : potassium chromate High Concern for Authorisation (Article 59).

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.

Listed substance / Sunset Date

: potassium chromate / 21.09.2017

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

REACH - Restrictions on the manufacture, : potassium chromate placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

National legislation

Seveso III: Directive 2012/18/EU of the European : ENVIRONMENTAL HAZARDS Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

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

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
May cause genetic defects.
May cause cancer by inhalation.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to

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