

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 10/03/2011 Revision date: 22/12/2022 Supersedes version of: 17/04/2018 Version: 1.3

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

1.1. Product identifier

Product form : Substance

Trade name : Potassium thiocyanate Analytical Grade ACS

Chemical name : salts of thiocyanic acid, with the exception of those specified elsewhere in this Annex

IUPAC name : potassium thiocyanate

: 615-004-00-3 EC Index-No. EC-No. : 206-370-1 CAS-No. : 333-20-0 Product code : POTH-00A Formula : KSCN

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

1.2.1. Relevant identified uses

Main use category : Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

labbox labware s.l.

Migjorn, 1

P.O. Box Barcelona (SPAIN)

08338 Premia de Dalt - SPAIN

T +34 937 07 79 70 - F +34 937 909 532

info@labbox.com - www.labbox.com

1.4. Emergency telephone number

Emergency number

: +34 937 077 970 (For technical information_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhal.), Category 4 H332 Acute toxicity (dermal), Category 4 H312 Acute toxicity (oral), Category 4 H302 Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H and EUH statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H332 - Harmful if inhaled.

H312 - Harmful in contact with skin.

H302 - Harmful if swallowed.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

EUH-statements : EUH032 - Contact with acids liberates very toxic gas.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
,	CAS-No.: 333-20-0 EC-No.: 206-370-1 EC Index-No.: 615-004-00-3	≥ 100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial

respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off immediately all contaminated clothing.

If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant

health hazard.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

Never give anything by mouth to an unconscious person.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : ABC-powder.
Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : fume.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid dust formation.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Do not

breathe dust. Do not breathe gas. Do not breathe vapours. Ventilate spillage area.

Measures in case of dust release : Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Breathing apparatus.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Minimise generation of dust. On land, sweep or shovel

into suitable containers.

6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid dust formation. Do not breathe vapours. Do not

breathe dust. Ensure good ventilation of the work station.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

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

smoking. Store in a well-ventilated place. Keep container tightly closed.

Storage area : Store in a well-ventilated place.

Special rules on packaging : Store in a closed container. Keep only in original container.

7.3. Specific end use(s)

Laboratory chemicals.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Potassium thiocyanate Analytical Grade ACS (333-20-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	3,6 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0,36 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1,3 mg/m³	
Long-term - systemic effects, dermal	1,5 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0,095 mg/l	
PNEC aqua (marine water)	0,0095 mg/l	
PNEC aqua (intermittent, freshwater)	0,0272 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0,543 mg/kg dwt	
PNEC sediment (marine water)	0,0543 mg/kg dwt	
PNEC (Soil)		
PNEC soil	6,336 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	1,667 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	30 mg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

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Personal protective equipment symbol(s):













8.2.2.1. Eye and face protection

Eye protection:

Face shield

Eye protection			
Туре	Field of application	Characteristics	Standard
Category II			EN 166

8.2.2.2. Skin protection

Skin and body protection:

Protective clothing

Skin and body protection		
Туре	Standard	
Protective clothing	EN 13034, EN 168, EN ISO 13982-1, EN ISO 6529, EN ISO 6530	

Hand protection:

protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Category III					EN 420, EN 374- 3, EN ISO 374-1

Other skin protection Materials for protective clothing		
Condition	Material	Standard
		EN ISO 20345, EN 13832-1

8.2.2.3. Respiratory protection

Respiratory protection:

Wear respiratory protection.

Respiratory protection			
Device	Filter type	Condition	Standard
filtering face piece	with filter for vapors/gases		EN 405

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : Colourless.
Odour : Not available
Odour threshold : Not available

Melting point : 177 °C Atm. press.: 1013,25 hPa

Freezing point Not available Boiling point Not available Flammability : Not available **Explosive limits** : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable : 500 °C Decomposition temperature

pH : 4,8 Temp.: 20,1 °C Concentration: 1070 g/L

pH solution : Not available
Viscosity, kinematic : Not applicable
Solubility : Water: 208 g/l
Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : < 0,000000013 Pa Temp.: 20 °C

Vapour pressure at 50 °C : Not available

Density : 1,91 g/cm³ Type: 'density' Temp.: 20 °C
Relative density : 1,91 Type: 'relative density' Temp.: 20 °C

Relative vapour density at 20 °C : Not applicable Particle size : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong bases. Strong acids.

10.6. Hazardous decomposition products

No additional information available

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Harmful in contact with skin.

Acute toxicity (inhalation) : Harmful if inhaled.

, ,		
Potassium thiocyanate Analytical Grade ACS (333-20-0)		
LD50 oral	508 mg/kg bodyweight Animal: other:Japanese quail (Coturnix coturnix faponica), Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 349 - 693	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:Japanese Ministry of Agriculture, Forestry and Fisheries (.JMAFF), 12 Nousan, Notification No 8147, November 2000, including the most recent partial revisions.	
LC50 inhalation rat (mg/l)	5,91 mg/l 1h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	pH: 4,8 Temp.: 20,1 °C Concentration: 1070 g/L : Not classified pH: 4,8 Temp.: 20,1 °C Concentration: 1070 g/L	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	

5 . 5 . 5 3 . 5 p . 5 p	Not classified Not classified
Potassium thiocyanate Analytical Grade ACS	(333-20-0)
NOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS

870.3100 (90-Day Oral Toxicity in Rodents)

: Not classified

Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Reproductive toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

(and not		
Potassium thiocyanate Analytical Grade ACS (333-20-0)		
LC50 - Fish [1]	65 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Daphnia [1]	3,56 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	116 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
LOEC (chronic)	2,5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	1,25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

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NOEC chronic fish 1,84 mg/l Test organisms (species): Pimephales promelas Duration: '124 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : Toxic to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

Waste treatment methods

HP Code

: Disposal must be done according to official regulations.

: Must follow special treatment according to local regulation.

: HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal

administration, or inhalation exposure.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one

or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

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IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Potassium thiocyanate Analytical Grade ACS is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

Potassium thiocyanate Analytical Grade ACS is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Potassium thiocyanate Analytical Grade ACS is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

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POP Regulation (Persistent Organic Pollutants)

Potassium thiocyanate Analytical Grade ACS is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Potassium thiocyanate is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No.

2619).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

: The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
EUH032	Contact with acids liberates very toxic gas.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H412	Harmful to aquatic life with long lasting effects.	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.