

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Ammonium peroxodisulfate solution 15 % pure

Revision date: 11.07.2023 Product code: 17570 Page 1 of 12

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

## 1.1. Product identifier

Ammonium peroxodisulfate solution 15 % pure

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH Street: Stempelstraße 6 Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de
Responsible Department: Abteilung Produktsicherheit

<u>1.4. Emergency telephone</u> For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

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

# 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

Ox. Liq. 3; H272 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

# Regulation (EC) No 1272/2008

## Hazard components for labelling

ammonium persulphate

Signal word: Danger

Pictograms:





#### **Hazard statements**

H272 May intensify fire; oxidiser.



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H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### **Precautionary statements**

P210

P220 Keep away from clothing and other combustible materials.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

### 2.3. Other hazards

No data available

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

#### **Chemical characterization**

Mixtures in aqueous solution

#### **Hazardous components**

CAS No	Chemical name						
	EC No						
	Classification (Regulation (EC	Classification (Regulation (EC) No 1272/2008)					
7727-54-0	ammonium persulphate						
	231-786-5	6-5 016-060-00-6 01-2119495973-19					
	Ox. Sol. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H272 H302 H315 H319 H334 H317 H335						

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name				
	Specific Conc. Limits, M-factors and ATE				
7727-54-0	727-54-0 231-786-5 ammonium persulphate		15 - < 20 %		
	inhalation: LC50 = >= 2,95 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1130 mg/kg				

### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

### **General information**

First aider: Pay attention to self-protection!

### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

## After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.



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### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

### After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

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

Irritant

Vomiting

Gastrointestinal complaints

Circulatory collapse

Blood pressure drop

Spasms

Narcotic effects

Respiratory complaints

Allergic reactions

### 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

Co-ordinate fire-fighting measures to the fire surroundings.

### Unsuitable extinguishing media

no restriction

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

Non-combustible liquids

oxidising

Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NOx)

Sulphur oxides

## 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

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

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

# For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

**Emergency procedures** 

Do not breathe dust/fume/gas/mist/vapours/spray.



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#### For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

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

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

### 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Use personal protection equipment.

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Do not breathe dust/fume/gas/mist/vapours/spray. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

### Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

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

### Requirements for storage rooms and vessels

Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Close containers in such a way to enable internal pressure to escape (e.g. excess pressure valve).

### Hints on joint storage

Keep away from combustible material.

Keep away from: Substance, organic

## Further information on storage conditions

Store in a dry place.



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Store in a well-ventilated place.

Protect against: Light

# 7.3. Specific end use(s)

Laboratory chemicals

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

## 8.1. Control parameters

# **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7727-54-0	Persulphate salts, inorganic; Ammonium persulphate		0.1		TWA (8 h)	

# **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
7727-54-0	ammonium persulphate			
Worker DNEL,	long-term	inhalation	systemic	2,06 mg/m³
Worker DNEL,	acute	inhalation	systemic	590 mg/m³
Worker DNEL,	long-term	inhalation	local	2,06 mg/m³
Worker DNEL,	long-term	dermal	systemic	18,2 mg/kg bw/day
Worker DNEL,	acute	dermal	systemic	400 mg/kg bw/day
Worker DNEL,	long-term	dermal	local	0,102 mg/cm <sup>2</sup>
Worker DNEL,	acute	dermal	local	2,248 mg/cm <sup>2</sup>
Consumer DNI	EL, long-term	inhalation	systemic	1,03 mg/m³
Consumer DNI	EL, acute	inhalation	systemic	295 mg/m³
Consumer DNI	EL, long-term	inhalation	local	1,03 mg/m³
Consumer DNI	EL, acute	inhalation	local	295 mg/m³
Consumer DNI	EL, long-term	dermal	systemic	9,1 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	200 mg/kg bw/day
Consumer DNI	EL, long-term	dermal	local	0,051 mg/cm <sup>2</sup>
Consumer DNI	EL, acute	dermal	local	1,124 mg/cm²
Consumer DNI	EL, long-term	oral	systemic	9,1 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	30 mg/kg bw/day



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#### **PNEC values**

CAS No	Substance				
Environmenta	compartment	Value			
7727-54-0 ammonium persulphate					
Freshwater		0,076 mg/l			
Freshwater (i	ntermittent releases)	0,763 mg/l			
Marine water		0,011 mg/l			
Freshwater se	ediment	0,275 mg/kg			
Marine sediment 0,04					
Micro-organisms in sewage treatment plants (STP)					
Soil 0,01					

# 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Individual protection measures, such as personal protective equipment

### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L
Recommended material: NBR (Nitrile rubber) 0,11 mm
Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. 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).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.



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### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless
Odour: odourless

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

boiling range:

Flammability: not applicable Lower explosion limits: not determined Upper explosion limits: not determined Flash point: No data available Auto-ignition temperature: No data available Decomposition temperature: not determined not determined pH-Value: Viscosity / kinematic: No data available

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

No data available

Density:

1,05 g/cm³

Bulk density:

No data available

Relative vapour density:

not determined

## 9.2. Other information

### Information with regard to physical hazard classes

Explosive properties

No data available

Sustaining combustion:

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties

The product is: oxidising, Oxidising.

## Other safety characteristics

Evaporation rate:

Solvent separation test:

Solvent content:

Solid content:

Solid content:

Sublimation point:

Softening point:

No data available

No data available:

Viscosity / dynamic:

Flow time:

No data available

No data available

# **Further Information**

No data available



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

#### 10.1. Reactivity

oxidising, Oxidising.

# 10.2. Chemical stability

Protect against: Light

### 10.3. Possibility of hazardous reactions

Metal powder

Acid

Base

Combustible substance

Hydrogen peroxide

Copper

Zinc

Iron.

## 10.4. Conditions to avoid

Heat

Light

## 10.5. Incompatible materials

No data available

## 10.6. Hazardous decomposition products

Formation of: Oxygen.

**SECTION 5: Firefighting measures** 

## **Further information**

No data available

# SECTION 11: Toxicological information

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

# Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

## **Acute toxicity**

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

# ATEmix calculated

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

CAS No	Chemical name	Chemical name					
	Exposure route	Dose		Species	Sou	urce	Method
7727-54-0	7-54-0 ammonium persulphate						
	oral LD50 1130 I mg/kg		Rat	Stu	udy report (1973)	OECD Guideline 401	
	dermal	LD50 mg/kg	> 2000	Rat	Stu	udy report (1991)	EPA OPP 81-2
	inhalation (4 h) dust/mist	LC50 mg/l	>= 2,95	Rat	Stu	udy report (1989)	EPA OPP 81-3

## Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.



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### Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (ammonium persulphate) May cause an allergic skin reaction. (ammonium persulphate)

### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

### **Aspiration hazard**

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

### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

### Additional information on tests

There are no data available on the preparation/mixture itself.

### **Practical experience**

There are no data available on the preparation/mixture itself.

### 11.2. Information on other hazards

### **Endocrine disrupting properties**

There are no data available on the preparation/mixture itself.

#### Other information

There are no data available on the preparation/mixture itself.

#### **Further information**

There are no data available on the preparation/mixture itself.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
7727-54-0	ammonium persulphate						
	Acute fish toxicity	LC50 mg/l	76,3	96 h	Oncorhynchus mykiss	(1993)	other: FIFRA Guideline 72-1 of the Pesti
	Acute algae toxicity	ErC50	136 mg/l		Phaeodactylum tricornutum	Study report (1992)	OECD Guideline 201
	Acute crustacea toxicity	EC50	120 mg/l	48 h	Daphnia magna	(1993)	other: FIFRA Guideline 72-2 of the Pesti

### 12.2. Persistence and degradability

There are no data available on the preparation/mixture itself.

## 12.3. Bioaccumulative potential

There are no data available on the preparation/mixture itself.

## 12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

## 12.5. Results of PBT and vPvB assessment

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



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#### 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

There are no data available on the preparation/mixture itself.

#### **Further information**

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.

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

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

### Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number or ID number: UN 3216

14.2. UN proper shipping name: PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 5.1 Classification code: 01 Limited quantity: 5 L Excepted quantity: E1 Transport category: 3 Hazard No: 50 Tunnel restriction code: Ε

# Other applicable information (land transport)

E1

# Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3216

14.2. UN proper shipping name: PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.

14.3. Transport hazard class(es):5.114.4. Packing group:IIIHazard label:5.1Classification code:O1Limited quantity:5 LExcepted quantity:E1

# Other applicable information (inland waterways transport)

E1

# Marine transport (IMDG)

14.1. UN number or ID number: UN 3216

14.2. UN proper shipping name: PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.

14.3. Transport hazard class(es):5.114.4. Packing group:IIIHazard label:5.1



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Special Provisions:

Limited quantity:

Excepted quantity:

EmS:

5 L

E1

F-A, S-Q

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3216

14.2. UN proper shipping name: PERSULPHATES, INORGANIC, AQUEOUS SOLUTION, N.O.S.

14.3. Transport hazard class(es):5.114.4. Packing group:IIIHazard label:5.1Special Provisions:A803Limited quantity Passenger:1 LPassenger LQ:Y541Excepted quantity:E1

IATA-packing instructions - Passenger:551IATA-max. quantity - Passenger:2.5 LIATA-packing instructions - Cargo:555IATA-max. quantity - Cargo:30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

Warning: Oxidising substances.

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to 2012/18/EU

P8 OXIDISING LIQUIDS AND SOLIDS

(SEVESO III):

National regulatory information

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

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

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

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

# 15.2. Chemical safety assessment

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

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

### Changes

This data sheet contains changes from the previous version in section(s): 9,12.



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### Abbreviations and acronyms

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

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% Ox. Liq: Oxidising liquid Ox. Sol: Oxidising solid Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Irrit: Eye irritation

Resp. Sens: Respiratory sensitisation

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

#### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

	<u> </u>
Classification	Classification procedure
Ox. Liq. 3; H272	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method

## Relevant H and EUH statements (number and full text)

H2/2	May intensity fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)