

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 16.08.2021 Revision: 16.08.2021 Version number 7.03 (replaces version 7.02)

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

- · 1.1 Product identifier
- · Trade name: diammonium peroxodisulphate
- · Article number: A2941
- · CAS Number:
- 7727-54-0
- EC number: 231-786-5
- · Index number:
- 016-060-00-6
- · Application of the substance / the mixture Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: AppliChem GmbH Ottoweg 4 D-64291 Darmstadt

Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com

- · Further information obtainable from: Dept. Compliance
- 1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal buisness hours)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

- · Classification according to Regulation (EC) No 1272/2008
- Ox. Sol. 3 H272 May intensify fire; oxidiser.

Acute Tox. 4 H302 Harmful if swallowed.

- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Hazard pictograms



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· Signal word D				
· Hazard statem				
H272 May inter	H272 May intensify fire; oxidiser.			
H302 Harmful i	H302 Harmful if swallowed.			
H315 Causes s	skin irritation.			
	serious eye irritation.			
	se allergy or asthma symptoms or breathing difficulties if inhaled.			
	se an allergic skin reaction.			
	se respiratory irritation.			
· Precautionary				
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.			
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.			
P405	Store locked up.			
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.			
· 2.3 Other haza	ards			
Results of PB	T and vPvB assessment			
• PBT: Not applie	cable.			
vPvB: Not app	licable.			

SECTION 3: Composition/information on ingredients

· 3.1 Substances

- CAS No. Description
- 7727-54-0 diammonium peroxodisulphate
- Identification number(s)
- EC number: 231-786-5
- · Index number: 016-060-00-6

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Involve doctor immediately.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

· After skin contact:

Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth. make victim drink water (maximum of 2 drinking glasses) Seek immediate medical advice.

• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Fire-extinguishing powder
Use fire extinguishing methods suitable to surrounding conditions.
5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Nitrogen oxides (NOx)
Sulphur oxides (SOx)
Ammonia
Has a fire-promoting effect due to release of oxygen. Non-combustible.

- 5.3 Advice for firefighters
 Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
 Additional information
- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Avoid formation of dust. Avoid substance contact.
- Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Pick up mechanically. Avoid formation of dust. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Clean up affected area. • 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

Store under lock and key and with access restricted to technical experts or their assistants only.

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- · Recommended storage temperature: Room Temperature
- · Storage class: 5.1 B
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- Vacuum clean contaminated clothing. Do not blow or brush off contamination.
- Avoid contact with the eyes and skin.
- · Respiratory protection:

Required when dusts are generated. Filter P1

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level \geq 480 min

• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material: \geq 0.11 mm Value for the permeation: Level \geq 480 min · Eye/face protection



Tightly sealed goggles

· Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

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	properties
9.1 Information on basic physical and chem	iical properties
General Information Physical state	Solid
-	White
Colour: Odour:	
Odour threshold:	Odourless
	Not determined.
Melting point/freezing point:	120 °C
Boiling point or initial boiling point and boil	-
range	Undetermined.
Flammability	Contact with combustible material may cause fir
Lower and upper explosion limit	Not determined
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	~130 °C
pH Missesita	<4 (5%)
Viscosity:	Net excellenter
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	7 00 //
water at 20 °C:	582 g/l
Partition coefficient n-octanol/water (log val	•
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	1.982 g/cm ³
Relative density	Not determined.
Bulk density:	900 kg/m³
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
Form:	Crystalline
Important information on protection of he	alth
and environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical haz	ard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	May intensify fire; oxidiser.

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 Corrosive to metals Desensitised explosives 	Void Void	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Moisture
- 10.3 Possibility of hazardous reactions Reacts with flammable substances. Reacts with acids. Reacts with alkalis releasing ammonia. Acts as an oxidising agent on organic materials such as wood, paper and fats. Reacts with fabric soaked in the product (e.g. cleaning wool). Reacts with fats and oils. Reacts with reducing agents. Reacts with impurities. Reacts with heavy metals. 10.4 Conditions to avoid Moisture · 10.5 Incompatible materials: strong acids Bases reducing agents heavy metal salts Reacts with flammable substances. · 10.6 Hazardous decomposition products: In the event of fire: See chapter 5 · Additional information: strong oxidants Dust explosion possible.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Harmful if swallowed.
- LD/LC50 values relevant for classification:

· Components	Туре	Value	Species
Oral LD50 689 mg/kg (rat)			
Skin corrosion/irritation			
Causes skin irritation.			
 Serious eye damage/irritati 			
Causes serious eye irritation			
 After inhalation: Irritant to s 	kin and mu	cous memb	pranes.
 Respiratory or skin sensiti 			
May cause allergy or asthma		or breathin	g difficulties if inhaled.
May cause an allergic skin re			
			he classification criteria are not met.
 Carcinogenicity Based on a 			
	ed on availa	ble data, the	e classification criteria are not met.
 STOT-single exposure 			
May cause respiratory irritation			
• •			a, the classification criteria are not met.
 Aspiration hazard Based or 	n available o	data, the cla	assification criteria are not met.

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· 11.2 Information on other hazards

· Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information · 14.1 UN number or ID number · ADR, IMDG, IATA UN1444 · 14.2 UN proper shipping name ADR, IMDG, IATA AMMONIUM PERSULPHATE 14.3 Transport hazard class(es) · ADR · Class 5.1 (O2) Oxidising substances. · Label 5.1 IMDG. IATA Class 5.1 Oxidising substances. (Contd. on page 8) GR

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Label	5.1
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category	Warning: Oxidising substances. 50 F-A,S-Q Ammonium compounds A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g 3
Tunnel restriction code	Е
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 1444 AMMONIUM PERSULPHATE, 5.1, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- Seveso category P8 OXIDISING LIQUIDS AND SOLIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Dept. Compliance
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Ox. Sol. 3: Oxidizing solids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.	(Contd. of page 8)
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