

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product Identifier:**

**Chemical Name (EINECS):** Ammonium Persulphate  
**CAS Number:** 7727-54-0  
**EINECS Number:** 231-786-5  
**REACH Registration Number:** 01-2119495973-19-xxxx

**Relevant identified uses of the substance or mixture and uses advised against:**

**Identified use(s):** Usage only in accordance with the identified usages as stipulated in the CSR/CSA.  
Initiator for emulsion polymerizations, oxidizing agent.

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## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

**Regulation 1272/2008 (CLP):** Ox. Sol. 3, H272  
Acute tox. 4 H302  
Eye Irrit.2 H319  
STOT SE 3 H335  
Skin Irrit H315  
Resp. Sens H334  
Skin Sens H317

**EEC Directive 67/548/EEC & Directive 1999/45/EC:** O-Xn, R 8-22-36/37/38-42/43

**Label elements:** According to Regulation (EC) No. 1272/2008 (CLP).

**Trade name:**

**Hazard Pictogram:**



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**Signal word(s):** Danger.

**Contains:** Diammonium Peroxodisulphate EU-INDEX 016-060-00-6

**Hazard statement(s):**

- H272 - May intensify fire; oxidiser
- H302 - Harmful if swallowed
- H319- Causes serious eye irritation
- H335- May cause respiratory irritation
- H315- Causes skin irritation
- H334- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 - May cause an allergic skin reaction.

**Precautionary statement(s):**

- P210 - Keep away from heat/sparks/open flames/hot surface.- No smoking
- P220- Keep/store away from clothing/.../combustible materials.
- P221- Take any precaution to avoid mixing with combustibles.
- P261- Avoid breathing dust.
- P264- Wash thoroughly after handling with plenty of water.
- P270- Do not eat, drink or smoke when using the product.
- P272- Contaminated work clothing should not be allowed out of the workplace.
- P280- Wear protective gloves/protective clothing/eye protection/face protection.
- P285 – In case of inadequate ventilation wear respiratory protection.
- 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.
- P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.
- P332 P313- If skin irritation occurs: Get medical advice/attention.
- P362- Take off contaminated clothing and wash before reuse
- P501- Dispose of contents/containers in accordance with local/regional/national/international Regulation.

**Other hazards:**

- Physical-chemical hazards – See chapter 10
- Human health dangers – See chapter 11
- Environmental hazards – See chapter 12
- Other hazards – No particular hazards known.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances:** Diammonium Peroxodisulphate

CAS No.	EINECS No.	REACH Registration Number	ECC Index Number	Classification according to Directive 67/548/EEC	Classification according to Regulation 1272/2008	Content
7727-54-0	231-786-5	01-2119495973-19	016-060-00-6	O-Xn R22-36/37/38-42/43-8	Ox. Sol 3 H272, H302, H319, H335, H315, H314, H317	99.0%

See section 16 for the full text of the R, H- and EUH-phrases declared above.

Occupational exposure limits, if available, are listed in section 8.

Mixtures – The product in question is a substance.

Comment on components parts – Substances of Very High Concern- SVHC: substances are not contained or below 0.1%.

For the wording of the listed risk phrases refer to section 16.

## 4. FIRST AID MEASURES

### Description of first aid measures:

**General Advice:** Change soaked clothing immediately.

**Inhalation:** Ensure supply of fresh air.

In the event of symptoms seek for medical treatment.

**Skin contact:** In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

**Eye contact:** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**Ingestion:** Supply with medical care. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

**Most important symptoms and effects, both acute and delayed:** No information available

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media:

**Suitable extinguishing media:** Water spray jet, dry powder, Foam carbon dioxide (CO<sub>2</sub>)  
Extinguishing media that must not be used: Full water jet.

### Special hazards arising from the substance or mixture:

Unknown risk of formation of toxic pyrolysis products.

Sulphur oxides (SO<sub>x</sub>)

Nitrogen oxides (NO<sub>x</sub>)

[cont...]

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**Advice for fire-fighters:** Use self-contained breathing apparatus, Wear full protective suit, Cool containers at risk with water spray jet.  
Fire residues and contaminated fire-fighting water must be disposed of in accordance within the regulations.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

**Environmental precautions:** Knock down dust with water spray jet. Retain and dispose of contaminated wash water.

**Methods and material for containment and cleaning up:** Take up mechanically. Avoid raising dust. Dispose of absorbed material in accordance within the regulations.

**Reference to other sections:** See Section 8 and 13

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Use only in well-ventilate areas. Provide vacuuming if dust raised. Avoid the formation and deposition of dust.  
Keep away from sources of ignition.

**Conditions for safe storage, including any incompatibilities:** Only use containers that are approved specifically for the substance/product. Do not store with combustible materials.  
Do not store together with reducing agents. Do not store together with acids and alkalies.  
Keep container tightly closed. Store in a dry place. Keep container in a well-ventilated place.  
Protect form heat/ overheating.

**Specific end use(s):** See product use chapter 1.2.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:**

**Ingredients with occupational exposure limits to be monitored (GB):**

**Range (%):** Substance/ WEL: Workplace exposure limit

**99.0:** Diammonium Peroxodisulphate / - ppm, 1 mg/m3 (S208)

**Exposure controls:**

**Additional advice on system design:** Ensure adequate ventilation on workstation.

To pay attention to dust limit value (ACGHI-2006: 10 mg/m3 particle inhalable; 3 mg/m3 particle respirable).

Generic Exposure Scenarios only in accordance with the identified usages as stipulated in the CSR/CSA

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<b>Respiratory protection:</b>	Respiratory protection in the case of dust formation. Short term: filter apparatus, filter P2.
<b>Hand protection:</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact, >480 min (EN374).
<b>Eye protection:</b>	Safety glasses.
<b>Skin protection:</b>	Impermeable protective clothing.
<b>Other:</b>	Do not inhale dust. Avoid contact with eyes and skin. Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream. Clean skin thoroughly after work, apply skin cream.
<b>Thermal hazards:</b>	No information available.
<b>Environmental exposure controls:</b>	Not determined.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>Appearance:</b>	Solid Crystalline
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>pH in water solution:</b>	Ca.2.3 (250g/l) (20oC)
<b>Boiling point/boiling range:</b>	Not determined
<b>Flash point:</b>	Not applicable
<b>Flammability:</b>	Not determined
<b>Lower explosion limit:</b>	Not applicable
<b>Upper explosion limit:</b>	Not applicable
<b>Oxidizing properties:</b>	Yes
<b>Vapour pressure:</b>	Not applicable
<b>Density (g/ml):</b>	1.98 (20oC)
<b>Bulk density (kg/m3):</b>	900-1100 (20oC)
<b>Water solubility:</b>	559 (20oC)
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Viscosity, dynamic:</b>	Not applicable
<b>Relative Vapour density Determined in air:</b>	Not applicable
<b>Evaporation speed:</b>	Not applicable
<b>Melting point (°C):</b>	Not determined
<b>Auto ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	> 160
<b>Other information:</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	See chapter 10.3.
<b>Chemical stability:</b>	Stable under normal ambient conditions (ambient temperatures).

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**Possibility of hazardous reactions:** Reactions with combustible substances.

Reactions with strong acids and alkalies.

**Conditions to avoid:** Strong heating.

**Incompatible materials:** No information available.

**Hazardous decomposition products:** Oxygen.

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects:**

**Components:**

**Acute Toxicity:** LD0 Dermal, Rabbit: 2000 mg/kg (IUCLID)

LC0 Inhalative Rat: 2.95 mg/l/4h (IUCLID)

LD50 Oral, Rat: 495 mg/kg (IUCLID)

**Respiratory or skin sensitisation:** Sensitising in the maximum-dose test on guinea pigs.

**Specific target organ toxicity – Single exposure:** Not determined.

**Serious eye damage/eye irritation:** Not determined.

**Specific target organ toxicity – Repeated exposure:** Not determined.

**Mutagenicity:** Ames – test, OECD 471, salmonella typhimurium, negative.

**Reproduction toxicity:** No data available.

**Carcinogenicity:** Not determined.

**General remarks:** None.

## 12. ECOLOGICAL INFORMATION

**Toxicity:** IC10 (96h), Scenedesmus quadricauda (algae): 33 mg/l (IUCLID)

EC50 (48h) Daphnia magna: 120 mg/l (IUCLID)

LC50 (96h) Oncorhynchus mykiss: 76 mg/l (IUCLID)

**Persistence and degradability:**

**Behaviour in environment compartments:** Not determined.

**Behaviour in sewage plant:** Obtain approval of the relevant authorities before discharging into sewage treatments plants.

**Biological degradability:** Not applicable.

**Bio accumulative potential:** Not information available.

**Mobility in soil:** Not information available.

**Results of PBT and vPvB assessment:** Not information available.

**Other adverse effects:** Do not discharge product unmonitored into the environment.

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#### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:** Coordinate the waste disposal with the national authorities. Dispose of as hazardous waste.  
For recycling, consult waste disposal centres.

**Waste no. (Recommended):** 060314

**Contaminated packaging:** Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (Recommended):** 150110\*

#### 14. TRANSPORT INFORMATION

**Classification according to ADR:** UN 1444 Ammonium Persulphate 5.1 III

**Classification code:** 02

**Label:**



**ADR LQ:** 5 kg

**ADR 1.1.3.6 (8.6):** Transport category (tunnel code restriction code) 3 (E)

**Classification according to IMDG:** UN 1444 Ammonium Persulphate 5.1 III

**EMS:** F-A, S-Q

**Label:**



**IMDG LQ:** 5 kg

**Classification according to IATA:** UN 1444 Ammonium Persulphate 5.1 III

**Label:**



**Special precautions for users:** No further information given

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** No further information given.

#### 15. REGULATORY INFORMATION

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

**EEC Regulations:** 1968/548 (1999/45); 1991/689 (2001/118); 1999/13: 2004/42; 648/2004; 1907/2006 (Reach)  
1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

**Transport Regulations:** DOT-classification, ADR; IMDG-code IATA-DGR

**National Regulations (GB):** EH/2005

Workplace exposure limits with amendments October 2007. CHIP 3/CHIP 4

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**Chemical safety assessment:** For this substance a chemical safety assessment has not been carried out.

**Note:** The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### 16. OTHER INFORMATION

**Full text of R Phrases referred to under sections 2 and 3:**

R 22: Harmful if swallowed  
R 36/37/38: irritating to eyes, respiratory system and skin  
R 42/43: May cause sensitisation by inhalation and skin contact  
R8: contact with combustible material may cause fire.

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

H272: May intensify fire; oxidiser  
H302: Harmful if swallowed  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation  
H315: Causes skin irritation  
H334: may cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317: may cause an allergic skin reaction.

**Observe employment restrictions for people:** Yes.

**Source of key data used to compile the data sheet:** Supplier information.

**Legal disclaimer:** The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.