

## 1: Identification of substance / mixture

### 1. Product Identifier

### Substance

Product Name **Ammonium Persulphate**  
Product Code A20500  
CAS Number 7727-54-0  
Other Names  
IUPAC  
MFCD Number  
EC/EINECS 231-786-5  
REACH Number Index-No

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

Research and Development

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

Melford Laboratories Ltd  
Bildeston Road, Chelsworth  
Ipswich  
Suffolk  
IP77LE  
UK



Telephone: 01449 741178  
Fax: 01449 741217  
Email: support@melford.co.uk

### 4. Emergency telephone number

+44(0)1449 741178 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

H272	Ox. Sol. 2	
H302	Acute Tox. 4	
H312	Acute Tox. 4	
H315	Skin Irrit. 2	
H317	Skin Sens. 1	
H319	Eye Irrit. 2	
H334	Resp. Sens. 1	
H335	STOT SE 3	
H412	Aquatic Chronic 3	

### 2. Label elements

Signal Word **Danger**



### Hazard Statements

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary Phrases

P221	Take any precaution to avoid mixing with combustibles.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and 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.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

### 3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

## 3. Composition / Information on Ingredients

### 1. Substances

Product Name	Hazards	Concentration
Ammonium Persulphate		
CAS Number: 7727-54-0 EC/EINECS: 231-786-5	H272, H302, H312, H315, H317, H319, H334, H335, H412 Acute Tox. 4, Aquatic Chronic 3, Eye Irrit. 2, Ox. Sol. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT SE 3	<=100%

## 4. First Aid Measures

### 1. Description of first aid measures

<i>Skin Contact</i>	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor.
<i>Eye Contact</i>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse opened eye for several minutes under running water. Ensure adequate flushing by separating the eyelids with fingers Consult a doctor.
<i>Ingestion</i>	Wash out mouth with water. Do not induce vomiting unless instructed to do so by medical personnel Consult a doctor.
<i>Inhalation</i>	Move to fresh air in case of accidental inhalation. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor.

### 2. Most important symptoms and effects

No data available

### 3. Indication of any immediate medical attention

Notes to Physician: Treat symptomatically

## 5. Firefighting measures

### 1. Extinguishing Media

*Suitable* Water spray.  
Alcohol resistant foam.  
Dry chemical powder.  
Carbon dioxide.

*Unsuitable* None

### 2. Special Hazards arising from the substance or mixture

Oxidiser!  
 Container explosion may occur under fire conditions

### 3. Advice for Fire Fighters

Wear self-contained breathing apparatus.  
Wear protective clothing to prevent contact with skin and eyes.

## 6. Accidental Release Measures

### 1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

### 2. Environmental Precautions

Do not discharge into drains or rivers.

### 3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

## 7. Handling and Storage

### 1. Personal Precautions

<i>Safe Handling</i>	Ensure there is exhaust ventilation of the area.
<i>Protection against explosions and fires</i>	P221: Take any precaution to avoid mixing with combustibles. Normal measures for preventive fire protection.

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

<i>Managing Storage Risks</i>	Keep container tightly closed. Keep away from combustible materials. Store below 25° C Store at room temperature.
<i>Storage Controls</i>	Store away from incompatible materials
<i>Maintaining Integrity</i>	Keep container tightly closed.
<i>Other advice</i>	P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

### 3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

## 2. Exposure Controls

<i>General protective and hygiene measures</i>	P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling
<i>Engineering measures</i>	Ensure there is exhaust ventilation of the area.
<i>Eye / Face Protection</i>	Safety Glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
<i>Hand protection</i>	Protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
<i>Respiratory protection</i>	P260: Do not breathe dust/fume/gas/mist/vapours/spray. Where risk assessment indicates respiratory protection is required, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Skin protection</i>	Protective clothing. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<i>Other personal protection advice</i>	None

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

Appearance	White solid
Odour	None
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

### 2. Other Information

None

## 10. Stability and Reactivity

### 1. Reactivity

No data available

### 2. Stability

Stable under recommended storage conditions

### 3. Possibility of Hazardous Reactions

No data available

### 4. Conditions to Avoid

No data available

### 5. Incompatible Materials

Strong reducing agents.  
Organic materials  
Powdered metals

### 6. Hazardous Decomposition Products

In combustion emits toxic fumes of sulphur oxides.  
In combustion emits toxic fumes of nitrogen oxides.

## 11. Toxicology information

### 1. Information

<i>Acute Toxicity</i>	Oral LD50 (rat) 689mg/kg Dermal LD50 (rat) >2000mg/kg Inhalation LD50 (rat) 520mg/L 1h
<i>Skin corrosion/irritation</i>	No information available
<i>Serious eye Damage/irritation</i>	No information available
<i>Respiratory or skin sensitisation</i>	No information available
<i>Germ Cell mutagenicity</i>	No information available
<i>Carcinogenicity</i>	No information available
<i>Reproductive toxicity</i>	No information available
<i>STOT-single exposure</i>	No information available
<i>STOT-repeated exposure</i>	No information available
<i>Aspiration hazard</i>	No information available

### 2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12. Ecological Information

### 1. Toxicity

Freshwater Fish  
LC50 323mg/L - 96h  
LC50 103mg/L - 96h  
LC50 76.3mg/L - 96h

Water Flea  
EC50 120mg/L 48h

### 2. Persistence and degradability

No information available

### 3. Bio-Accumulative Potential

No information available

## 4. Mobility and Soil

No information available

## 5. Results of PBT & vPvB assessment

No information available

## 6. Other adverse effects

No information available

## 13. Disposal Considerations

### 1. Waste Treatment Methods

*Disposal Operations* Hand over to authorised disposal company as hazardous waste.

*Disposal of Packaging* Disposal must be made according to official regulations.

## 14. Transport Information

### Air (ICAO)

1. **UN Number:** 1444
2. **Shipping Name:** Ammonium persulphate
3. **Transport hazard class(es):** : 5.1 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

### Road (ADR)

1. **UN Number:** 1444
2. **Shipping Name:** AMMONIUM PERSULPHATE
3. **Transport hazard class(es):** : 5 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

### Sea (IMDG)

1. **UN Number:** 1444
2. **Shipping Name:** Ammonium persulphate
3. **Transport hazard class(es):** : 5.1 Sub Class :



4. **Packing group:** III
5. **Environmental hazards:**
6. **Special Precautions for user:**

**7. Transport in bulk:** IBCINS: IBC08  
IBCPPOV: B3  
  
TANKPROV: TP33

## 15. Safety, health, environmental and national regulations

### 1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

### 2. Safety Assessment

No Chemical Safety Assessment

## 16. Other Information

### 1. Other Information:

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

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

### 3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text