Vickers Laboratories Ltd - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2

Revision date: Date printed: 16 April 2021 12 August 2023

084

Section 1. Identification

1.1	Product Identifier	0842		
	Product Name	AMMONIUM PERSULPHATE		
	CAS Number REACH Registration No	7727-54-0 A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.		
	Molecular Formula	(NH,) ₂ S ₂ O ₁ = 228.19		
1.2 I	Relevent identified uses of t	he substance or mixure & uses advised against		
	Uses of Material	Chemical for industrial and laboratory use. Not suitable for domestic use.		
1.3	Supplier	Vickers Laboratories Ltd		
	VICKERS LABORATORIES	Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW UNITED KINGDOM		
	Phone Fax Email Website	44 0113 2362811 +44(0)113 2362703 safety@viclabs.co.uk www.viclabs.co.uk		
1.4	Emergency Telephone	(08:00-16:30) +44(0) 113 2362811 (24hr) 112 (Have this document to hand)		

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Oxidising solid, category 3	H272: May intensify fire; oxidizer.
Acute toxicity, category 4 (oral)	H302: Harmful if swallowed.
Skin corrosion/irritation, category 2	H315: Causes skin irritation.
Serious eye damage/irritation, category 2	H319: Causes serious eye irritation.
Respiratory sensitization, category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1	H317: May cause an allergic skin reaction.
Spec target organ tox - single, category 3	H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger

Hazard Pictograms



Hazard StatementsMay intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction.
Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May
cause respiratory irritation.Precautionary StatementsKeep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing
/ combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective
gloves / protective clothing / eye protection.

Section 3. Composition

3.1 Substances

I	Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
	Ammonium persulphate	7727-54-0	231-786-5		>99%	Ox. Sol. 3,Acute Tox. 4 (O),Skin Irrit. 2,Eye Irrit. 2,Resp. Sens. 1,Skin Sens. 1,STOT SE 3 (I)

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.
Inhalation	Remove from exposure.
Ingestion	Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media				
Extinguishing Media	Consider what other flammable materials are present and act accordingly.			
Unsuitable Media	Nothing specified.			

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire. Not combustible but assists burning.

5.3 Advice for firefighters

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal Protection Avoid breathing dust-wear respiratory protective equipment.

6.2 Environmental precautions

Enviromental

Presents no major environmental hazard.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Store in a suitable area for oxidising agents. Do not store on wooden surfaces. Protect against moisture to prevent decomposition. Keep well separated from combustible materials.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term	(8hr TWA)	Short Term 1	5min period)
Ammonium persulphate	7727-54-0	>99%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hand Protection	Wear gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	White crystalline powder or granules.
Odour	No specific odour.
pH	3 @ 20°C solution.
Boiling Point	Not available
Melting Point	120°C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	A strong oxidising agent.
Vapour Pressure	Not applicable
Relative Density	1.1500

58%

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions but decomposes to liberate oxygen on heating or contact with water.
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	Will undergo self accelerating decomposition above 170C. Avoid contact with rust and traces of metal
10.5	Incompatable Materials	Reducing agents. Water. Heavy metals and their salts.
10.6	Hazardous Decomposition Products	Decomposes to form toxic fumes of oxides of sulphur, flammable oxygen and toxic ozone.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Causes serious eye irritation.
Skin	Contact with the solid or dust will be irritating to the skin. May cause skin sensitisation.
LD50 Skin	Not available
Ingestion	Harmful if swallowed. Ingestion may cause diarrhoea, nausea, vomiting, hyperpnoea and convulsions.
LD50 Oral	689mg/kg Rat
Inhalation	Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

Section 12. Ecological

12.1	Toxicity	Small amounts present no specific environmental hazard.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not available
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods				
Disposal Methods	Do not dispose of as domestic waste.			
Contaminated Packaging	Wash out containers with water.			

Section 14. Transport Information

14.1	UN Number	1444	
14.2	Proper Shipping Name	Ammonium persulphate	
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category	5.1 None 3	OXIDIZING AGENT
14.4	ADR Hazard ID Tunnel Restriction Code Packing Group	50 E III	5.1
14.5	Environment hazards	See section 12.	
14.6	Special precautions for user	No special precautions required.	
14.7	Transport in bulk	Not transported in bulk.	

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Oxidising solid, category 3; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Respiratory sensitization, category 1; Skin sensitization, category 1; Spec target organ tox - single, category 3
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H272, H302, H315, H317, H319, H334, H335 May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
Precautionary Statements	P210, P220, P221, P280 Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles Wear protective gloves / protective clothing / eye protection.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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