# Material Safety Data Sheet AMMONIUM PERSULPHATE LR VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02 Product Code: 12220 Page 1 of 8

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : AMMONIUM PERSULPHATE LR

Product code : 12220

**Identification of the product** : AMMONIUM PERSULPHATE LR

**CAS No** : 7727-54-0

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

**Company identification** : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,

Mumbai – 400 002 (INDIA)

Tel:+91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email: info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

#### 2. Hazards identification –DSD

## 2.1. Classification of the substance or mixture

Oxidizing solids, (Category 3)
Acute toxicity, (Category 4)
Skin irritation, (Category 2)
Eye irritation, (Category 2)
H272: May intensify fire; oxidizer.
H302: Harmful if swallowed.
H315: Causes skin irritation.
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. Specific target organ toxicity – H335: May cause respiratory irritation.

single exposure, (Category 3),

Respiratory system

## 2.2. Label elements

Labelling according Regulation (EC) No 1272/2008

**Symbol**(s) : Xn : Harmful O : Oxidizing





**Hazard Statements** 

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H272	May intensify fire; oxidizer.
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.
Precautionary Statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P220	Keep away from clothing and other combustible materials.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of 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.
Supplemental Hazard Stat	ements none

**2.3. Other hazards:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3. Composition/information on ingredients

## 3.1 Substances

Synonyms : Ammonium peroxodisulfate

Formula  $: (NH_4)_2S_2O_8$ Molecular weight: 228.20 g/mol CAS-No. : 7727-54-0

#### 4. First aid measures

## 4.1. Description of first aid measures

#### If inhaled

After inhalation: fresh air. In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

## In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

# 5. Fire-fighting measures

# 5.1. Extinguishing media

# Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# 5.2. Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)

Sulfur oxides

Container explosion may occur under fire conditions.

Not combustible.

Has a fire-promoting effect due to release of oxygen.

Ambient fire may liberate hazardous vapours.

## **5.3.** Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus.

Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## **5.4 Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6. Accidental release measures

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

## **6.2.** Environmental precautions

Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### **6.4.** Reference to other sections

For disposal see section 13.

#### 7. Handling and storage

## 7.1. Precautions for safe handling

# Advice on safe handling

Work under hood. Do not inhale substance/mixture.

Advice on protection against fire and explosion

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Keep away from open flames, hot surfaces and sources of ignition.

## **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection.

Wash hands and face after working with substance.

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

## **Storage conditions**

Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons.

Do not store near combustible materials.

Moisture sensitive.

## Storage class

Storage class (TRGS 510): 5.1B: Oxidizing hazardous materials

# 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. Exposure controls/personal protection

## 8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

Respiratory protection : Wear approved mask. Hand protection : Wear protective gloves.

Skin protection : Wear suitable protective clothing.

Eye protection : Chemical goggles or safety glasses.

Others : When using, do not eat, drink or smoke.

#### **8.2.** Control parameters

Occupational Exposure Limits: No data available.

#### 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state Powder Color White

Odor No data available

Melting Decomposes before melting.

point/freezing point

Initial boiling point Decomposes below the boiling point.

and boiling range

Flammability (solid, gas) No data available Upper/lower No data available

flammability or explosive limits

Flash point Not applicable
Autoignition temperature No data available
Decomposition temperature No data available

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1,0 - 2 at 228 g/l at 25 °C pН

Viscosity Viscosity, kinematic: No data available

Viscosity, dynamic : No data available

228 g/l at 20 °C - completely soluble Water solubility

Partition coefficient:

n-octanol/water No data available Vapor pressure No data available Density 1.980 g/cm3 Relative density No data available Relative vapor density No data available Particle characteristics No data available Explosive properties No data available

Oxidizing properties None

9.2. Other information

No data available

#### 10. Stability and reactivity

## 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

May decompose on exposure to moist air or water.

## 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

no information available

## 10.5. Incompatible materials

No data available

## 10.6. Hazardous decomposition products

In the event of fire: see section 5

## 11. Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed Skin corrosion/irritation : Causes skin irritation

pH: 1-2 (aqueous solution, 228 g/L at 25°C).

Serious eye damage/irritation : Causes serious eye irritation.

pH: 1-2 (aqueous solution, 228 g/L at 25°C)

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if

inhaled. May cause an allergic skin reaction.

: Not classified Germ cell mutagenicity

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Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified Aspiration hazard : Not classified

#### 12. Ecological information

12.1. Toxicity

Toxicity to fish LC50 - Fundulus heteroclitus (Mummichog) - 315 mg/l - 48 h

Remarks: (ECOTOX Database)

(anhydrous substance)

#### 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 and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# 12.6 Endocrine disrupting properties

**Product:** 

Assessment : The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or

Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

(EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

## 13. Disposal considerations

## 13.1. Waste treatment methods

Waste treatment methods: Dispose of contents/container in accordance with licensed

collector's sorting instructions.

Product/Packaging disposal recommendations: Dispose of contents/container to a licensed hazardous-

waste disposal contractor or collection site except for empty clean containers which can be disposed of as

nonhazardous waste.

Additional information: Hazardous waste due to potential risk of explosion.

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14. Transport information

14.1. UN number

ADR/RID: 1444 IMDG: 1444 IATA: 1444

14.2. UN proper shipping name

ADR/RID: AMMONIUM PERSULPHATE IMDG: AMMONIUM PERSULPHATE IATA: AMMONIUM PERSULPHATE

**14.3.** Transport hazard class(es)

ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1

14.4. Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG: Marine pollutant: no IATA: no

14.6 Special precautions for user

**Further information** 

Not classified as dangerous in the meaning of transport regulations.

#### 15. Regulatory information

**15.1.** Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

#### 16. Other information

## Abbreviations and acronyms:

PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative

**Sources of key data used**: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

#### **Further information**: None.

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