CAS No: 7727-21-1 MSDS

LABOGEN'S

MATERIAL SAFETY DATA SHEET (MSDS)

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

: Substance
:
: 016-061-00-1
: 231-781-8
: 7727-21-1
: 05420
· 0 0
KO-S-O-O-S-OK
: Potassium peroxodisulfate

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids,	H272
Category 2	
Acute toxicity (oral),	H302
Category 4	
Skin corrosion/irritation,	H315
Category 2	
Serious eye damage/eye	H319
irritation, Category 2	
Sensitisation —	H334
Respiratory, category 1	11047
Sensitisation — Skin,	H317
category 1	

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Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

O; R8 Xn; R22 R42 Xi; R36/37/38 R43 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS03 GHS07 GHS08 Signal word (CLP) : Danger Hazard statements (CLP) : H272 - May intensify fire; oxidiser 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 P220 - Keep/Store away from clothing/.../combustible materials Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P284 - [In case of inadequate ventilation] wear respiratory protection P305+P351+P338 - 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 or doctor/physician

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information	on ingredients
3.1. Substance	
3.1. Substance Name	: POTASSIUM PERSULPHATE AR
CAS No	: 7727-21-1
EC no	: 231-781-8
EC index no	: 016-061-00-1
Full text of R- and H-phrases: see sectio	n 16
3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measu	ires
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label). If skin irritation or rash occurs:
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
1.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate n	nedical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: May cause fire or explosion; strong oxidiser.
Explosion hazard	 Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.3. Advice for firefighters	
Firefighting instructions	: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.

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SECTION 6: Accidental release measure	es
6.1. Personal precautions, protective	e equipment and emergency procedures
General measures	: No naked lights. No smoking.
6.1.1. For non-emergency personnel	
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
Emergency procedures	. Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	
Methods for cleaning up	: Clear up rapidly by scoop or vacuum.
6.4. Reference to other sections	
No additional information available	
CECTION 7. Hendling and stores	
SECTION 7: Handling and storage	
SECTION 7: Handling and storage7.1.Precautions for safe handling	
	: Hazardous waste due to potential risk of explosion.
7.1. Precautions for safe handling	 Hazardous waste due to potential risk of explosion. Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
7.1. Precautions for safe handling Additional hazards when processed	: Take any precaution to avoid mixing with combustibles/ Avoid breathing
7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc. 	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc. Technical measures 	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Iuding any incompatibilities Proper grounding procedures to avoid static electricity should be followed.
 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Technical measures Storage conditions Incompatible materials 	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Huding any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Keep in fireproof place. Keep container tightly closed.
 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Technical measures Storage conditions Incompatible materials 7.3. Specific end use(s) 	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Huding any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Keep in fireproof place. Keep container tightly closed.
 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Technical measures Storage conditions Incompatible materials 7.3. Specific end use(s) No additional information available 	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Eluding any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Keep in fireproof place. Keep container tightly closed. Heat sources. combustible materials.
 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Technical measures Storage conditions Incompatible materials 7.3. Specific end use(s) 	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Eluding any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Keep in fireproof place. Keep container tightly closed. Heat sources. combustible materials.
 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Technical measures Storage conditions Incompatible materials 7.3. Specific end use(s) No additional information available 	 Take any precaution to avoid mixing with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Eluding any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Keep in fireproof place. Keep container tightly closed. Heat sources. combustible materials.

8.2. Exposure controls

Personal protective equipment

: Wear fire/flame resistant/retardant clothing.

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Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of inadequate ventilation wear respiratory protection
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	
Physical state	: Solid
Colour	: White powder.
Odour	: odourless.
Odour threshold	: No data available
рН	: 2.5 - 4.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 100 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 9.3
Relative density	: No data available
Density	: 2.48 g/cm ³
Solubility	: Water: 27 g/l at 20 °C - completely soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: May cause fire or explosion; strong oxidiser.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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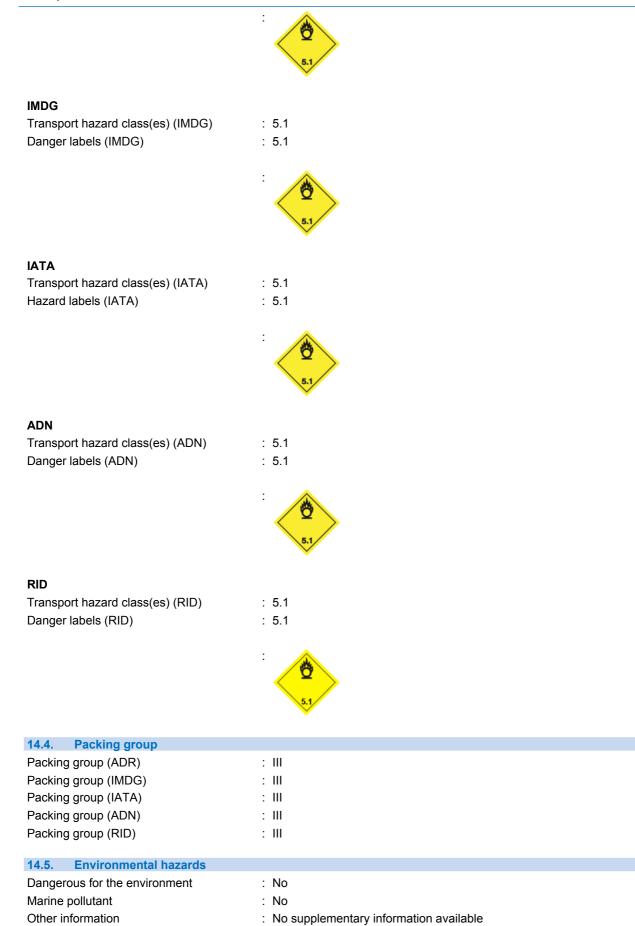
10.2. Chemical stability	
May cause fire or explosion; strong oxidiser	
10.3. Possibility of hazardous reaction	ns
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Heat. Sparks. Overheating.	Open flame.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produ	ucts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	
Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes skin irritation.
	pH: 2.5 - 4.5
Serious eye damage/irritation	: Causes serious eye irritation.
Schous cyc damage/imation	pH: 2.5 - 4.5
Poppiratory or akin consistention	•
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Carolinogolilolty	
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: May cause respiratory irritation.
exposure)	
Creatific toward owners towicity (represented	· Nat classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects	: Harmful if swallowed.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	

No additional information available

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to
recommendations	
Additional information	: Hazardous waste due to potential risk of explosion.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT/	A / ADN
14.1. UN number	
UN-No. (ADR)	: 1492
UN-No. (IMDG)	: 1492
UN-No.(IATA)	: 1492
UN-No.(ADN)	: 1492
UN-No. (RID)	: 1492
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: POTASSIUM PERSULPHATE
Proper Shipping Name (IMDG)	: POTASSIUM PERSULPHATE
Proper Shipping Name (IATA)	: POTASSIUM PERSULPHATE
Proper Shipping Name (ADN)	: POTASSIUM PERSULPHATE
Proper Shipping Name (RID)	: POTASSIUM PERSULPHATE
Transport document description (ADR)	: UN 1492 POTASSIUM PERSULPHATE, 5.1, III, (E)
Transport document description (IMDG)	: UN 1492 POTASSIUM PERSULPHATE, 5.1, III
Transport document description (IATA)	: UN 1492 POTASSIUM PERSULPHATE, 5.1, III
Transport document description (ADN)	: UN 1492 POTASSIUM PERSULPHATE, 5.1, III
Transport document description (RID)	
	: UN 1492 POTASSIUM PERSULPHATE, 5.1, III
14.3. Transport hazard class(es)	
14.3. Transport hazard class(es) ADR	: UN 1492 POTASSIUM PERSULPHATE, 5.1, III
14.3. Transport hazard class(es)	

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14.6. Special precautions for user

- Overland transport

- Overland transport	
Classification code (ADR)	: 02
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container	: T1
instructions (ADR) Portable tank and bulk container special	: TP33
provisions (ADR)	2241
Tank code (ADR)	: SGAV
Tank special provisions (ADR)	: TU3
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP6, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24
Hazard identification number (Kemler No.)	: 50
Orange plates	50
	50
	1492
Tunnel restriction code (ADR)	: E
EAC code	: 1Z
- Transport by sea	
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-Q
Stowage category (IMDG)	: A
Segregation (IMDG)	: SG39, SG49
MFAG-No	
MFAG-N0	: 140
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y546
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 559
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 563
CAO max net quantity (IATA)	: 100kg
ERG code (IATA)	: 5L
- Inland waterway transport	
Classification code (ADN)	: 02
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Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: O2
Limited quantities (RID)	: 5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV
Special provisions for RID tanks (RID)	: TU3
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP6, AP7
Special provisions for carriage – Loading and unloading (RID)	: CW24
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 50

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

POTASSIUM PERSULPHATE AR is not on the REACH Candidate List POTASSIUM PERSULPHATE AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 1350)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

· · ·	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 2	Oxidising Solids, Category 2
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser
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
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R42	May cause sensitization by inhalation
R43	May cause sensitisation by skin contact
R8	Contact with combustible material may cause fire
0	Oxidising
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product