# **POTASSIUM NITRATE AR MSDS**

# CAS No: 7757-79-1 MSDS



# MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1.	Product identifier		
Product	form	:	Substance
		:	
EC no		:	231-818-8
CAS No	i i i i i i i i i i i i i i i i i i i	:	7757-79-1
Product	code	:	05400

#### 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

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Oxidising Solids, H272

Oxidising Solids, H. Category 2

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 Xi; R36/37/38 Full text of R-phrases: see section 16 Safety Data Sheet

## Adverse physicochemical, human health and environmental effects

No additional information available

2.2.	Label elements	
Labelli	ing according to Regulation (E	C) No. 1272/2008 [CLP]
Hazard	l pictograms (CLP)	GHS03
Signal	word (CLP)	: Danger
Hazard	l statements (CLP)	: H272 - May intensify fire; oxidiser
Precau	tionary statements (CLP)	: P220 - Keep/Store away from clothing//combustible materials

2.3. Other hazards

**Mixture** 

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substance		
Name	: POTASSIUM NITRATE AR	
CAS No	: 7757-79-1	
EC no	: 231-818-8	
Full text of R- and H-phrases:	see section 16	

Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measu	res
First-aid measures after inhalation	: 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).
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.
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.

3.2.

Safety Data Sheet

risk of burns and injuries.  5.3. Advice for firefighters  Firefighting instructions  i 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.  SECTION 6: Accidental release measures  6.1. Personal proceutions, protective equipment and emergency procedures General measures  I No naked lights. No smoking.  6.1. For non-emergency personnel Emergency procedures  Frotective 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 containment and cleaning up Methods for cleaning up  Clear up rapidly by scoop or vacuum.  6.4. Reference to other sections No additional information available  SECTION 7: Handling and storage  7.1. Precautions for safe handling  Additional hazards when processed  Firefaulting and storage  Clear up rapidly by scoop or vacuum.  Additional hazards when processed  Precautions for safe handling  Additional hazards when processed  Protective equip ment using with combustibles/ Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.  Hygiene measures  Proper grounding procedures to avoid static electricity should be followed. Store in a dy place. Protect form misture.		
Treat symptomatically.         SECTION 5 Firefighting media         5.1       Extinguishing media         2.1.       Extinguishing media         2.1.       Unsuitable 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 dosed containers, spreading fire and increasin risk of burys bosion.         7.3.       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.         SECTION 6: Accidental release measures       : No naked lights. No smoking.         6.1.1.       For non-emergency personnel         Emergency procedures       : Evacuate unnecessary personnel.         6.1.2.       For intergighting up         Codid release to the environment.       : Stop release.         6.3.       Methods and material for containment and cleaning up         Methods or cleaning up       : Clear up rapidly by scoop or v	Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
SECTION 5: Firefighting media         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 increasin 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.         SECTION 6: Accidental release measures       : No naked lights. No smoking.         6.1.       Personal proceutions, protective equipment and emergency procedures         Emergency procedures       : Evacuate unnecessary personnel.         Entregency procedures       : Stop release.         6.2.       Environmental proceutions         Avoid release to the environment.       Stop release.         6.3.       Methods and material for containment and cleaning up         Methods or cleaning up       : Clear up rapidly by scoop or vacuum.     <	4.3. Indication of any immediate m	nedical attention and special treatment needed
5.1       Extinguishing media       : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).         Jusuitable 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 increasin risk of burns and injuries.         5.3.       Advice for firefighters         Firefightling 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.         SECTION 6: Accidental release measures       : No naked lights. No smoking.         6.1.       Personal procedures         6.1.1. For non-emergency personnel       : Evacuate unnecessary personnel.         B.1.2. For emergency responders       : Use personal protective equipment as required.         Protective equipment       : Stop release.         6.2. Environmental proceutions       : Use personal procedures         S.3. Methods and material for containment and cleaning up       : Clear up rapidly by scoop or vacuum.         S.4. Reference to other sections       No additional information available         SECTION 71 Handling and storage <td>Treat symptomatically.</td> <td></td>	Treat symptomatically.	
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No additional information available         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Additional hazards when processed       : Hazardous waste due to potential risk of explosion.         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.         Hygiene measures       : Do not eat, drink or smoke when using this product. Wash thoroughly after handling.         7.2. Conditions for safe storage, including any incompatibilities       : Proper grounding procedures to avoid static electricity should be followed.         Efechnical measures       : Proper grounding procedures to avoid static electricity should be followed.         Storage conditions       : Keep in fireproof place. Keep container tightly closed. Store in original container. Store in a dry place. Protect from moisture.	Methods for cleaning up	: Clear up rapidly by scoop or vacuum.
SECTION 7: Handling and storage         7.1.       Precautions for safe handling         Additional hazards when processed       : Hazardous waste due to potential risk of explosion.         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.         Hygiene measures       : Do not eat, drink or smoke when using this product. Wash thoroughly after handling.         7.2.       Conditions for safe storage, including any incompatibilities         Technical measures       : Proper grounding procedures to avoid static electricity should be followed.         : Keep in fireproof place. Keep container tightly closed. Store in original container. Store in a dry place. Protect from moisture.	6.4. Reference to other sections	
7.1. Precautions for safe handling         Additional hazards when processed       : Hazardous waste due to potential risk of explosion.         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.         Hygiene measures       : Do not eat, drink or smoke when using this product. Wash thoroughly after handling.         7.2. Conditions for safe storage, including any incompatibilities       : Proper grounding procedures to avoid static electricity should be followed.         Storage conditions       : Keep in fireproof place. Keep container tightly closed. Store in original container. Store in a dry place. Protect from moisture.	No additional information available	
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Storage conditions       : Keep in fireproof place. Keep container tightly closed. Store in original container.         Store in a dry place. Protect from moisture.	7.2. Conditions for safe storage, in	ncluding any incompatibilities
Store in a dry place. Protect from moisture.	Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
	Storage conditions	
	Incompatible materials	: Heat sources. combustible materials.
	7.3. Specific end use(s)	

No additional information available

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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No additional information available

8.2. Exposure controls	
Personal protective equipment	: Wear fire/flame resistant/retardant clothing.
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
<b>SECTION 9: Physical and chemical prop</b>	erties
9.1. Information on basic physical a	
Physical state	: Solid
Colour	: White crystalline.
Odour	: odourless.
Odour threshold	: No data available
рН	: 5.5 - 8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 334 °C
Freezing point	: No data available
Boiling point	: 4000 °C
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	: 3
Relative density	: No data available
Density	: 2.109 g/cm <sup>3</sup>
Solubility	: Water: 36 g/100ml
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosive properties	: No data available
Oxidising properties	: May cause fire or explosion; strong oxidiser.
Explosive limits	: No data available
0.0 Other information	
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
May cause fire or explosion; strong oxidise	er.
10.3. Possibility of hazardous reaction	ons
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Heat. Sparks. Overheating	l. Open flame.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition proc	ducts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological eff	fects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: 5.5 - 8
Serious eye damage/irritation	: Not classified
conoue eye damage, maderi	pH: 5.5 - 8
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated exposure)	: Not classified
A second second	
Aspiration hazard	: Not classified

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Potential adverse human health effects : Harmful if swallowed. and symptoms		
SECTION 12: Ecological information		
12.1. Toxicity		
No additional information available		
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential No additional information available		
No additional mormation available		
12.4. Mobility in soil No additional information available		
12.5. Results of PBT and vPvB asses	cmont	
No additional information available	Shen	
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)	: 1486	
UN-No. (IMDG)	: 1486	
UN-No.(IATA)	: 1486	
UN-No.(ADN)	: 1486	
UN-No. (RID)	: 1486	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: POTASSIUM NITRATE	
Proper Shipping Name (IMDG)	: POTASSIUM NITRATE	
Proper Shipping Name (IATA)	: POTASSIUM NITRATE	
Proper Shipping Name (ADN)	: POTASSIUM NITRATE	
Proper Shipping Name (RID)	: POTASSIUM NITRATE	
Transport document description (ADR)	: UN 1486 POTASSIUM NITRATE, 5.1, III, (E)	
Transport document description (IMDG)	: UN 1486 POTASSIUM NITRATE, 5.1, III	

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Transport document description (ADN) Transport document description (RID)	: UN 1486 POTASSIUM NITRATE, 5.1, III : UN 1486 POTASSIUM NITRATE, 5.1, III
14.3. Transport hazard class(es)	
<b>ADR</b> Transport hazard class(es) (ADR) Danger labels (ADR)	: 5.1 : 5.1
IMDG	
Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 5.1 : 5.1
	5.1
ΙΑΤΑ	
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 5.1 : 5.1
	5.1
ADN	
Transport hazard class(es) (ADN) Danger labels (ADN)	: 5.1 : 5.1
	5.1
RID	
Transport hazard class(es) (RID) Danger labels (RID)	: 5.1 : 5.1
	5.1
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG) Packing group (IATA)	: III : III

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Packing group (ADN)	: III
Packing group (RID)	: III
14.5. Environmental hazards	
Dangerous for the environment	:No
Marine pollutant	:No
Other information	:No supplementary information available

# 14.6. Special precautions for user

- 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 instructions (ADR)	: T1, BK1, BK2
Portable tank and bulk container special provisions (ADR)	: TP33
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 1486
Tunnel restriction code (ADR)	: E
EAC code	.∟ : 1Z
	. 12
- Transport by sea	
Special provision (IMDG)	: 964, 967
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, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-Q
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
MFAG-No	: 140
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y546
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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
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: B
Equipment required (ADN)	: PP
Provisions prior to loading (ADN)	: LO04
Provisions for carriage in bulk (ADN)	: CO02
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: CO02 and LO04 apply only when this substance is carried in bulk or without packaging
- Rail transport	
Classification code (RID)	: 02
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, BK1, BK2
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 NITRATE AR is not on the REACH Candidate List POTASSIUM NITRATE AR is not on the REACH Annex XIV List Safety Data Sheet

## 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 346)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

**15.2.** Chemical safety assessment No additional information available

## **SECTION 16: Other information**

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

Oxidising Solids, Category 2
May intensify fire; oxidiser
Harmful if swallowed
Irritating to eyes, respiratory system and skin
Contact with combustible material may cause fire
Oxidising
Irritant
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