

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification 1.1 **Product identifiers Product Name :** Sodium nitrate Cat No.: BP360500; S3423; S3433; S343500 CAS No.: 7631-99-4 1.2 Relevant identified uses of the substance or mixture and uses advised against **Recommended uses :** Laboratory chemicals Uses advised against: Food, drug, pesticide or biocidal product use. 1.3 Details of the supplier of the safety data sheet Krishna Solvechem Limited. **Company**: B/503, Sahayog, S. V. Road, Kandivali (West), Mumbai – 400067. India. **Telephone:** +91-22-6123 0222 Email: exports@kscl.co.in 1.4 **Emergency telephone number** +91-8657457330 **Emergency Phone : SECTION 2: Hazards identification** 2.1 **Classification** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Oxidizing solids (Category 3) Serious Eye Damage/Eye Irritation (Category 2) Specific target organ toxicity (repeated exposure) (Category 2) Target Organs - Liver, Heart, Blood 2.2 Label elements

Pictogram:

Signal word

Warning Cause damage to organs through prolonged or repeated Hazard statement (s) exposure



May intensify fire; oxidizer Causes serious eye irritation Precautionary statement (s) Prevention Wash face, hands and any exposed skin thoroughly after handling Wear gloves/protective protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Store away from clothing/ other combustible materials Inhalation : IF INHALED: 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 Eyes: IF IN EYES: 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 Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage: Store locked up Store in a well-ventilated place. Keep container tightly closed



Disposal:

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
Sodium nitrate	7631-99-4	>95

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1	Description of mist and measures				
	General Advice:	If symptoms persist, call a physician.			
	If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
	In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
	In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
	Ingestion :	Do NOT induce vomiting. Get medical attention			
4.2	Most important symptoms and effects :	None reasonably foreseeable			
4.3	Notes to Physician :	Treat symptomatically			

SECTION 5: Firefighting effects

5.1	Extinguishing media	
	Suitable extinguishing media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
	Unsuitable Extinguishing Media: :	Carbon dioxide (CO2)
5.2	Flash Point : Method :	No information available No information available



	Autoignition Temperature: Explosion Limits:	No information available							
	Upper	No data availat	ole						
	Lower	No data available							
	Sensitivity to Mechanical Impact	No information available							
	Sensitivity to Static Discharge	No information available Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Thermal decomposition can lead to release of irritating gases and vapors.							
	Specific Hazards Arising from the Chemical :								
	Hazardous Combustion Products :	Sodium oxides	, Nitrogen oxides	(NOx)					
5.4	Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.							
	NFPA:	Health	Flammability	Instability	Physical hazards				
		2	0	1					

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation

6.2 Environmental precautions

Avoid release to the environment. See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Keep away from clothing and other combustible materials.



7.2 Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Incompatible Materials. Strong oxidizing agents. Strong reducing agents. Combustible material.

SECTION 8: Exposure controls/personal protection

8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

Personal protective equipment -

Eye / Face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European StandardEN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice..

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	• •
a) Appearance	White solid Crystalline
b) Odour	Odorless
c) Odour Threshold	No information available
d) pH	5.5-8 5% aq. solution
e) Melting point / freezing point	306 °C / 582.8 °F
f) Initial boiling point and	380 °C / 716 °F



boiling range	
g) Flash point	No information available
h) Evaporation rate	No information available
i) Flammability (solid, gas)	Not applicable
j) Upper/lower	No data available
flammability or	No data available
explosive limits	
k) Vapour pressure	No information available
l) Vapour density	Not applicable
m) Specific Gravity	No information available
n) Solubility	No information available
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	No information available
q) Decomposition temperature	> 380 °C.
r) Viscosity	No information available
s) Molecular formula	N Na O3
t) Molecular Weight	84.99

SECTION 10: Stability and Reactivity

10.1	Reactive Hazard :	Yes
10.2	Chemical stability :	Stable under normal conditions. Oxidizer: Contact with combustible/organic material maycause fire. Hygroscopic.
10.3	Possibility of hazardous reactions :	None under normal processing.
10.4	Conditions to avoid :	Avoid dust formation. Incompatible products. Combustible material. Excess heat. Exposure to air or moisture over prolonged periods.
10.5	Incompatible materials:	Strong oxidizing agents, Strong reducing agents, Combustible material
10.6	Hazardous decomposition products :	Sodium oxides, Nitrogen oxides (NOx)
10.7	Hazardous Polymerization	Hazardous polymerization does not occur



		SE	CTION 11:	Toxicologi	cal information	on				
<u>Acu</u> Proe	rmation on toxico t <u>e toxicity:</u> duct Information 1ponent Informat	:	ects							
	Component LD50 Oral LD50 Dermal LC50 Inhalation									
Sodi	um nitrate	>2000	mg/kg (Rat)		Not listed	Not liste	ed			
Тохі	icologically Syner	gistic Prod	ucts	No in	formation availa	able				
	<u>Delayed and in</u>	nmediate e	effects as we	<u>ell as chroni</u>	c effects from s	hort and long	<u>-term exposure</u>			
Irritation : Irritating to eyes, respiratory system and skin										
	Sensitization:			No in	formation availa	able				
Carcinogenicity :										
	Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
	Sodium nitrate	7631-99- 4	Not listed	Not listed	Not listed	Not listed	Not listed			
	Mutagenic Effe	ects:		No info	rmation availabl	е.				
	Reproductive E	ffects:		No information available.						
	Developmenta	l Effects :		No information available.						
	Teratogenicity:	:		No information available.						
	STOT - single e	xposure :		None known						
	STOT - repeate	d exposure	2:	Liver, Heart, Blood						
	Aspiration haz	ard :		No information available.						
	Symptoms / e delayed:	ffects, both	acute and	No information available						
	Endocrine Disr	uptor Info	rmation :	No info	rmation availabl	e				
	Other Adverse	Effects :		The toxicological properties have not been fully investigated.						



		SECTIO	N 12: Ec	cological in	oformati	on		
12.1								
	toxicity:		Do not	empty into	drains.			
	Component	Freshwater Algae		ater Fish	Microto	х	Water Flea	
	Sodium nitrate	-	mg/L, 9 (Oncor mykiss mg/L, 9	994.4 - 1107 96h static hynchus)LC50: = 2000 96h static his acrochirus)	-		6000 mg/L 24h	
12.2	Persistence a	nd degradability:	Soluble Availab		rsistence	is unlikely	based on informati	on
	Bioaccumulat Accumulation	-	No info	rmation avai	ilable			
12.3	Mobility:			ely be mobile ty. Log pow		nvironmen	t due to its water	
		SECTION	N 13: Di	sposal con	siderati	ons		
13.1	chemical is cla	ent methods: Che assified as a hazard national hazardous	ous wast	e. Chemical	waste ge	nerators m	nust also consult lo	
		SECTIO	N 14: Tr	ansport in	oformati	on		
	UN number : DOT : UN1498 IATA : UN149	8 IMDG : UN						
14.2	2 UN proper sh	ipping name						
		UM NITRATE	TDG :	SODIUM NI				
	IMDG: SODI	UM NITRATE	IATA :	SODIUM N	ITRATE			
14.3	B Transport haz	zard class(es)	OT: 5.1	TDG: 5	5.1	MDG: 5.1	IATA: 5.1	
14.4	Packaging gro	oup: D	DOT: III	TDG: I	II	IMDG: III	IATA: III	
		SECTION	N 15: Re	gulatory i	nformat	ion		
15.1	United states	of America Invent	ory:					
	Component	CAS-No		TSCA	notifi	iventory ication (Inactive	TSCA - EPA Regulatory Flags	
	Sodium nitra	ate 7631-99-4		Х	AC	TIVE	-	



TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed
TSCA 12(b) - Notices of Export Not applicable

International Inventories:

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium	7631	Х	-	231-554-3	Х	Х	Х	Х	Х	KE-3154
nitrate	-99-4									_

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Sodium	7631-99-4	>95	1.0
nitrate			

SARA 311/312 Hazard Categories

CWA (Clean Water Act)

Clean Air Act

OSHA - Occupational Safety and Health Administration

Not applicable

Not applicable

Not applicable

Not applicable

See section 2 for more information

CERCLA

California Proposition 65This product does not contain any Proposition 65chemicals.

15.2 U.S. State Right-to-Know Regulations:

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium nitrate	Х	Х	х	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ): N



Mexico -	ternational Regu			DHS Chemical Facility Anti-Terrorism Standard		
Mexico - Safety, h	-		Theft STQs - 400lb			
Safety, h		lations				
-	- Grade	No infor	mation available			
Component	ealth and enviro	onmental regulatio	ons/legislation sp	ecific for the sub	ostance or mixtu	
	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)	
Sodium nitrate	7631-99-4	Listed	Not applicable	Not applicable	Not applicable	
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)	
Sodium nitrate	7631-99-4	Not applicable	Not applicable	Not applicable	Not applicable	
		SECTION 16: Of	ther information	on		
16.1 Prepared By: Email: Creation Date: Revision Date: Print Date: Revision Summary:		Regulatory affairs Krishna Solvechem Limited exports@kscl.co.in 23-Mar-2012 24-Aug-2023 24-Aug-2023 This document has been updated to comply with the US OSH HazCom 2012 Standard replacing the current legislation unde 29 C F R 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).				

information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

