

2 Hazards Identification

2.1 Classification of the substance or mixture CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]

Oxidising solids, (Category 3), H272 Skin corrosion or irritation, (Category 2), H315 Serious eye damage or eye irritation, (Category 2A), H319 Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335 For the full text of the H-Statements mentioned in this Section, See Section 16

2.2 Label elements

Labeling according to Regulation (EC) No.1272/2008



Pictogram Signal word

Hazard Statement(s)

H272 May intensify fire; oxidizer

Warning

H315 Causes skin irritation

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H319	Causes serious eye irritation
H335	May cause respiratory irritation
Precautionary St	atement(s)
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378	In case of fire: Use suitable extinguishing media for extinction.
Other Hazards	

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

3.2 Mixture

Сог	mponent	Classification	Concentration
Potassium nitrate	e		
CAS No. :	7757-79-1	As Per EC Regulation 1272/2008	>=40 - <=45%
EC No. :	231-818-8	Ox. Sol. 3 H272	

Co	mponent	Classification	Concentration
Ammonium nit	ate		
CAS No. :	6484-52-2	As Per EC Regulation 1272/2008	>=35 - <=40%
EC No. :	229-347-8	Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A;	
		STOT SE 3 H272; H315; H319; H335	

Со	mponent	Classification	Concentration
Calcium chlorid	e,anhydrous		
CAS No. :	10043-52-4	As Per EC Regulation 1272/2008	>=8 - <=12%
EC No. :	233-140-8	Eye Irrit. 2A H319	

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

4 First Aid Measures

4.1 Description of first aid measures *General advice*

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of immediate medical attention and special treatment needed Treat symptomatically.

5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

Magnesium oxides, Sulphur oxides, Sodium oxides, Iron oxides, Calcium Oxide, Cobalt oxides, Copper oxides, Manganese oxides,, Molybdenum oxides, Oxides of Phosphorus, Potassium oxides, Zinc oxides

5.3 Precautions for fire-fighters Cool closed containers exposed to fire with water spray.

5.4 Further informationWear self-contained breathing apparatus for firefighting if necessary.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personnel protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see Section 13.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Wear protective gloves and eye/face protection. Use only in well ventilated areas. Keep away from heat, sparks and open flame.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool/well-ventilated place. Storage class (TRGS 510): Oxidizing Solids
Recommended Storage Temperature : 2 - 8°C

7.3 Specific end uses

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

8 Exposure Controls/Personal Protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks, immediately after handling the products and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN 166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Have eye-washing facilities readily available where eye contact can occur.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

White to off-white, homogenous powder

Odour **Odour Threshold** pН Melting/freezing point Initial boiling point and boiling range Flash point Upper/lower flammability or explosive limits **Evaporation rate** Flammability (Solid, gas) Vapour pressure **Relative density** Water Solubility Autoignition Temperature **Decomposition Temperature** Viscosity **Explosive properties Oxidizing properties** Vapour density Thermal decomposition

No data available No data available 4.3 - 5.3 No data available Soluble in water No data available No data available

9.2 Other safety information

	No data available
10	Stability and Reactivity
10.1	Reactivity
	No data available
10.2	Chemical stability
	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions
	No data available
10.4	Conditions to avoid
	No data available
10.5	Incompatible materials
	No data available
10.6	Hazardous decomposition products
	Hazardous decomposition products formed under fire conditions - Nitrogen oxides(NOx), Sulphur
	oxides, Oxides of phosphorus,. Potassium oxides, Magnesium oxide, Cobalt/cobalt oxides, Calcium
	oxide, Copper oxides

11 Toxicological Information

11.1 Information on toxicological effects *Acute toxicity* No data available Remarks : No data available No data available *Skin corrosion/irritation*

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No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. *Reproductive toxicity* No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS** : Not Applicable

- 12 Ecological Information
- **12.1 Toxicity** No data 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 PBT and vPvB assessment** This preparation contains no substance considered to be persistent, bioaccumulating or toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
- **12.6** Other adverse effects
- 13 Disposal Considerations
- 13.1 Waste treatments methods Product

Dispose of as unused product.

13.2 Contaminated packaging

Burn in a chemical incinerator equipped with an afterburner and srcubber but exert extra care in igniting as this material is highly flammable. Contact a licenced professional waste disposal service to dispose off this material.

14 Transport Information

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	UN-No ADNR : 1477 ADR : 14	177 IATA C : 1477 IATA P : 1477 IMDG : 1477 RID : 1477		
.2	UN proper shipping name			
	ADNR : N	litrates, inorganic, n.o.s.		
		litrates, inorganic, n.o.s.		
		litrates, inorganic, n.o.s.		
	_	litrates, inorganic, n.o.s.		
	—	litrates, inorganic, n.o.s.		
		litrates, inorganic, n.o.s.		
.3	Transport hazard class			
	•	1 IATA_C : 5.1 IATA_P : 5.1 IMDG : 5.1 RID : 5.1		
4	Packaging group			
	ADNR : II ADR	: II IATA_C : II IATA_P : II IMDG : II RID : II		
5	Environmental hazard			
	ADR : No IMDG : N	1arine Pollutant : No IATA_C : No		
.6	Special precautions for	r use		
	No data available			
	Regulatory Information	on and a second s		
;	This safety data sheet	complies with the requirements of Regulation (EC) No. 1907/2006		
5 5.1	This safety data sheet Safety health and env			
5.1	This safety data sheet Safety health and env mixture	complies with the requirements of Regulation (EC) No. 1907/2006 ironment regulations/legislation specific for the substance or		
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.1 .2	This safety data sheet Safety health and env mixture Chemical Safety Asses For this product a cher Other information H272 H315 H319 H335	complies with the requirements of Regulation (EC) No. 1907/2006 ironment regulations/legislation specific for the substance or ssment mical safety assessment was not carried out. May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation May cause respiratory irritation		
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the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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