STRONTIUM NITRATE

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: Strontium nitrate
Product Code: CM 23341
CAS#: 10042-76-9
Synonym: Strontium nitrate
Chemical Name: Not available
Chemical Formula: $Sr(NO_3)_2$
Formula weight: 211.63

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:
Name: Strontium nitrate
Toxicological Data on Ingredients: Ox. Sol. 1; Eye Dam. 1; H271, H318

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Oxidizing solids (Category 1), H271
Serious eye damage (Category 1), H318
Potential Acute Health Effects: Not available
Potential Chronic Health Effects : Not available
Carcinogenic Effects: Not available
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.
Developmental Toxicity: Not Available
Specific target organ toxicity - Not available

SECTION 4: FIRST AID MEASURES

Description of first aid measures
General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled If breathed in: Move person into fresh air. 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: Flush eyes with water as a precaution.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delay: No data available
Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media
Suitable extinguishing media :
Water Foam Carbon dioxide (CO2) Dry powder.
Special hazards arising from the substance or mixture
Sodium oxides
Molybdenum oxides
Not combustible.

Ambient fire may liberate hazardous vapours.
Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
Environmental precautions Do not let product enter drains.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Work under hood. Do not inhale substance/mixture.
Conditions for safe storage, including any incompatibilities
Separately or together with other oxidising substances only and away from sources of ignition and heat.Because of their oxidation potential these products can raise the burning rate of combustible substances substantially or ignite combustible substances on contact with them.
Storage Class:
Not available.
Specific end use(s) A part from the uses:
No other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls
Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
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 of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
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 For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	: Solid
Colour	: White
Odour	: Not available
Odour Threshold	: Not available
pH	: Not available
Melting point/freezing point	: 570°C
Initial boiling point and boiling range	: Not available
Flash point	: Not available

Evapouration rate	: Not available
Flammability (solid, gas)	: Not available
Upper/lower flammability or explosive limits	: Not available
Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: Not available
Water solubility	: 660 g/l at 20°C
Partition coefficient	: Not available
Auto-ignition temperature	: Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity no data available
Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions
Not available.
Conditions to avoid :
Not available.
Incompatible materials
Strong oxidizing agents
Hazardous decomposition products Other decomposition products - In the event of fire

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute Toxicity:
LD50 Oral - Rat - female - > 2.000 mg/kg
LC50 Inhalation - Rat - male and female - 4 h - > 4,5 mg/l
Skin corrosion/irritation no data available
Serious eye damage/eye irritation Serious eye damage (Category 1), H318
Respiratory or skin sensitization no data available
Carcinogenicity no data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish	static test LC50 - Cyprinus carpio (Carp) - > 97,5 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - 125 mg/l - 48 h
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - > 104,7 mg/l - 72 h
Toxicity to bacteria	static test EC50 - activated sludge - > 100 mg/l - 3 h

Persistence and degradability:
Not Available
Bioaccumulative potential :
no data available
Mobility in soil no data available
Results of PBT and vPvB assessment PBT/vPvB assessment not available
Other adverse affects no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

UN number:		
ADR/RID: 1507	IMDG: 1507	IATA: 1507
UN proper shipping name		
ADR/RID: STRONTIUM NITRATE		
IMDG: STRONTIUM NITRATE		
IATA: STRONTIUM NITRATE		
Transport hazard class(es):		
ADR/RID: 5.1	IMDG: 5.1	IATA: 5.1
Packaging group:		
ADR/RID: III	IMDG: III	IATA: III
Environmental hazards:		
ADR/RID: No	IMDG Marine pollutant: No	IATA: No

SECTION 15: OTHER REGULATORY INFORMATION

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.

Other regulations
Take note of Dir 94/33/EC on the protection of young people at work.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.
H271 May cause fire or explosion; strong oxidizer.
H318 Causes serious eye damage.
Special Considerations: Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user‘s obligation to investigate and determine the suitability of the information for their particular purpose.