



Flinn Scientific Canada Inc.
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PRODUCT: Sodium nitrate

CODE: J743.00

SECTION 01: IDENTIFICATION

MANUFACTURER..... Flinn Scientific Inc.
PO Box 219
Batavia, Illinois 60510 USA
Tel: 1-800-452-1261

PRODUCT NAME..... Sodium nitrate

PRODUCT USE..... This product is intended for use in a laboratory. The use of this product is restricted for use in a laboratory only.

SYNONYMS..... Chile saltpeter.

EMERGENCY NUMBER:..... CHEMTREC Emergency Phone Number: 703-527-3887 .

SECTION 02: HAZARD IDENTIFICATION



SIGNAL WORD..... WARNING.

HAZARD CLASSIFICATION..... Acute Toxicity (Oral) — Category 4. Oxidizing Solids — Category 3 . Eye Irritation — Category 2A.

HAZARD STATEMENT(S)..... H272 May intensify fire; oxidizer. H302 Harmful if swallowed. H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENT(S)..... P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P220 Keep/Store away from clothing and combustible materials. P221 Take any precaution to avoid mixing with combustibles. P280 Wear protective gloves, protective clothing, eye protection and face protection.

RESPONSE..... P305+P351+P338 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 tri-class dry chemical fire extinguisher for extinction. P330 Rinse mouth. P301+P312 IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention.

STORAGE..... Flinn Suggested Chemical Storage Pattern: Inorganic #3.

DISPOSAL..... P501 Dispose of contents/container in accordance with local regulations.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Sodium nitrate	7631-99-4	100

SECTION 04: FIRST AID MEASURES

MEDICAL ATTENTION AND SPECIAL TREATMENT Call a POISON CENTER or physician if you feel unwell.

INHALATION..... Remove victim to fresh air and keep at rest in a position comfortable for breathing.

INGESTION..... Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SKIN CONTACT..... Rinse cautiously with water for several minutes .

EYE CONTACT..... Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

SECTION 05: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA..... Use a tri-class dry chemical fire extinguisher .

HAZARDOUS COMBUSTION PRODUCTS..... Nonflammable solid.

SPECIAL FIRE FIGHTING PROCEDURES..... Increases the flammability of any combustible substance. When heated to decomposition it emits toxic fumes of nitrogen oxide and sodium oxide. Strong oxidizer. Fire and explosion risk when in contact with organic materials .

NFPA CODE..... None established.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

PROTECTIVE EQUIPMENT AND Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly
 EMERGENCY PROCEDURES after handling.
 METHODS AND MATERIALS FOR Sweep up, place in sealed bag or container and dispose. See Sections 8 and 13 for further
 CONTAINMENT AND CLEANING UP information.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES..... Wash thoroughly after handling .
 STORAGE NEEDS..... Store with amides, nitrates, and azides. Store in a cool, dry place. Store away from
 combustible materials.
 FLINN SUGGESTED CHEMICAL STORAGE INORGANIC #3.
 PATTERN

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Sodium nitrate	Not established	Not established	Not established	Not established	Not established	Not established
PROTECTIVE EQUIPMENT.....	Wear protective gloves, protective clothing, and eye protection.					
EYE/TYPE.....	Safety goggles.					
RESPIRATORY/TYPE.....	Respiratory device if needed.					
GLOVES/ TYPE.....	Protective gloves.					
CLOTHING/TYPE.....	Protective clothing.					
FOOTWEAR/TYPE.....	Protective footwear.					
BODY/TYPE.....	General personal protective equipment.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE..... Colourless transparent crystals.
 ODOUR..... Odourless.
 ODOUR THRESHOLD..... No data available.
 pH..... Not applicable.
 SPECIFIC GRAVITY..... 2.261.
 MELTING POINT (°C)..... 306.5.
 BOILING POINT (°C)..... 380 °C.
 EVAPORATION RATE..... Not applicable .
 FLASH POINT (°C), METHOD..... Not available.
 UPPER FLAMMABLE LIMIT (% VOL)..... Not available.
 LOWER FLAMMABLE LIMIT (% VOL)..... Not available.
 VAPOUR PRESSURE (mm Hg)..... Not applicable.
 VAPOUR DENSITY (AIR=1)..... Not applicable.
 SOLUBILITY..... Water and glycerin. Slightly in alcohol.
 PARTITION COEFFICIENT — Not available.
 (N-OCTANOL/WATER)
 FLAMMABILITY (SOLIDS AND GASES)..... Not applicable .
 AUTO IGNITION TEMPERATURE (°C)..... Not available.
 DECOMPOSITION TEMPERATURE..... 380 °C.
 VISCOSITY..... 3.85 cP at 590 K.

SECTION 10: STABILITY AND REACTIVITY

STABILITY..... Shelf life: Indefinite, if stored properly.
 POSSIBILITY OF HAZARDOUS REACTIONS..... Not combustible but enhances combustion of other substances sodium nitrate is a strong
 oxidant and reacts with combustible and reducing materials, causing fire and explosion
 hazard.
 CONDITIONS TO AVOID..... Avoid friction and shock.
 INCOMPATIBLE MATERIALS..... Avoid contact with strong reducers, strong acids, combustible materials and finely
 powdered metals.
 HAZARDOUS DECOMPOSITION When heated to decomposition it emits toxic fumes of nitrogen oxide and sodium oxide.
 PRODUCTS

SECTION 11: TOXICOLOGICAL INFORMATION

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
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Sodium nitrate	Not established	orl-rat: 1267 mg/kg
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ROUTE OF ENTRY:.....	Ingestion. Skin and eye contact.
ACUTE EFFECTS:.....	Irritant.
CHRONIC EFFECTS	Not available, not all health aspects of this substance have been fully investigated.
TARGET ORGANS.....	Not available, not all health aspects of this substance have been fully investigated.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY.....	Data not yet available.
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SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS.....	Please review all Federal, Provincial and Local Regulations that may apply before proceeding.
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SECTION 14: TRANSPORT INFORMATION

SHIPPING NAME.....	UN1498 – SODIUM NITRATE – Hazard Class: 5.1, oxidizer – Packing group III.
PROOF OF CLASSIFICATION.....	This product has been classified in accordance with Part 2 of the Transportation of Dangerous Goods Regulations.

SECTION 15: REGULATORY INFORMATION

CEPA STATUS.....	DSL - The substance is specified on the public Portion of the Domestic Substances List.
U.S. TSCA INVENTORY STATUS.....	Listed. RCRA code D001.
EINECS STATUS.....	Listed. (231-554-3).

SECTION 16: OTHER INFORMATION

DISCLAIMER:.....	This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).
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PREPARED BY:	Flinn Scientific Inc.
DATE OF LATEST REVISION.....	DEC 17/2015