

LTS CHEMICAL INC
MATERIAL SAFETY DATA SHEET
RUBIDIUM NITRATE

GENERAL

MANUFACTURER/SUPPLIER: LTS RESEARCH LABORATORIES, INC.
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DATE MSDS PREPARED: 02/03/00
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1. PRODUCT IDENTIFICATION

PRODUCT NAME: RUBIDIUM NITRATE
FORMULA: Rb_2NO_3
CAS #: 13126-12-0

2. PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT 760 mm Hg: N/A
MELTING POINT: 310°C
SPECIFIC GRAVITY (@ 20°C): 3.11 g/cm³
MOLECULAR WEIGHT:
VAPOR DENSITY: N/A
VAPOR PRESSURE :(mm Hg): N/A
% VOLATILES: N/A
SOLUBILITY IN H₂O: N/A
APPEARANCE AND ODOR: POWDER, WHITE, NO ODOR.

3. HAZARD IDENTIFICATION

HAZARDOUS COMPONENTS %
RUBIDIUM CARBONATE 0-100%
OSHA/PEL: NONE LISTED
ACGIH/TLV NONE LISTED
HMIS RATINGS (0-4):
HEALTH (ACUTE EFFECTS) 1
FLAMMABILITY: 0
REACTIVITY: 1

4. FIRE FIGHTING MEASURES

FLASH POINT: N/A
AUTOIGNITION TEMPERATURE: N/A
FLAMMABLE LIMITS:
UPPER: N/A
LOWER: N/A
FLAMMABILITY: NOT FLAMMABLE.
EXTINGUISHING MEDIA: PRODUCT IS NOT FLAMMABLE. USE SUITABLE MEDIA FOR SURROUNDING MATERIAL.
SPECIAL HAZARDS CAUSED BY THE MATERIAL, ITS PRODUCTS OF COMBUSTION OR RESULTING GASES: IN CASE OF FIRE, THE FOLLOWING CAN BE RELEASED

NITROGEN OXIDES (NOX) THIS SUBSTANCE IS AN OXIDIZER AND ITS HEAT OF REACTION WITH REDUCING AGENTS OR COMBUSTIBLES MAY CAUSE IGNITION.

SPECIAL FIRE FIGHTING PROCEDURES:

FIREFIGHTERS MUST WEAR FULL-FACE, SELF-CONTAINED BREATHING APPARATUS WITH FULL PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

5. HEALTH HAZARD INFORMATION

EFFECTS OF OVER EXPOSURE:

ACUTE EFFECTS:

INHALATION:

MAY CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION:

MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. MAY CAUSE CENTRAL, PERIPHERAL, AND AUTONOMIC NERVOUS SYSTEM EFFECTS. PERIPHERAL NERVOUS SYSTEM EFFECTS ARE CHARACTERIZED BY MUSCULAR WEAKNESS, PARESTHESIAS, NUMBNESS IN LIMBS, UNSTEADINESS AND DIFFICULTIES IN WALKING AND STANDING.

SKIN:

MAY CAUSE IRRITATION.

EYE:

MAY CAUSE IRRITATION

CHRONIC AFFECTS:

MUSCLE SPASM, HYPERIRRITABILITY AND RED BLOOD CELL ACCUMULATION WITH POSSIBLE NEUROMUSCULAR EFFECTS.

CARCINOGENITY:

NTP:

NO

IARC:

NO

OSHA:

NO

EPA

NO

OSHA

NO

ACGIH

NO

6. STABILITY

STABILITY:

STABLE UNDER NORMAL CONDITION

CONDITION TO AVOID:

INCOMPATIBLE MATERIALS, EXPOSURE TO AIR, EXPOSURE TO MOIST AIR OR WATER

INCOMPATIBILITY

(MATERIAL TO AVOID):

REDUCING AGENTS, EASILY OXIDIZED MATERIALS ORGANIC MATERIALS

HAZARDOUS

DECOMPOSITION PRODUCTS:

NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

7. EMERGENCY AND FIRST AID PROCEDURES:

INHALATION:

REMOVE VICTIM TO FRESH AIR, KEEP WARM. IF REQUIRED PROVIDE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, SEEK MEDICAL ATTENTION.

INGESTION:

SEEK IMMEDIATE MEDICAL AID

SKIN:

FLUSH WITH WATER AND WASH WITH MILD SOAP AND WATER. RINSE WITH WATER THOROUGHLY. SEEK MEDICAL ATTENTION IF SYMPTOM PERSISTS.

EYE:

FLUSH WITH WATER, INCLUDING UNDER UPPER AND LOWER EYELID, FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIS

8. HANDLING AND STORAGE

HANDLING AND STORAGE

KEEP CONTAINER TIGHTLY SEALED AND CLOSED. STORE IN COOL, DRY AREA, AWAY FROM FLAMMABLE AND REDUCING SUBSTANCE. PLACE IN WELL VENTILATED AREA.

OTHER PRECAUTIONS:

NORMAL LAB COAT.

9. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR SUITABLE PROTECTIVE CLOTHING. KEEP UNPROTECTED PERSON AWAY. SECURE WELL VENTILATION.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

RESPIRATORY PROTECTION (SPECIFY TYPE):

NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE RESPIRATOR OR DUST MASK. WHEN WORKING WITH FINELY DIVIDED POWDERS, WEAR A NIOSH-APPROVED DUST-MIST-VAPOR RESPIRATOR.

VENTILATION:

USE GENERAL OR LOCAL EXHAUST TO MAINTAIN CONCENTRATION AT OR BELOW THE PEL, TLV. WHEN WORKING WITH FINELY DIVIDED POWDERS, HANDLE IN A CONTROLLED, ENCLOSED ENVIRONMENT.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES

EYE PROTECTION:

SAFETY GLASSES

BODY PROTECTION:

PROTECTIVE WORK CLOTHING .

10. TOXICITY DATA

ORAL RAT LD50:

4625 mg/kg.

CARCINOGENICITY:

NOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA.

TERATOGENICITY:

N/A.

REPRODUCTIVE EFFECTS:

N/A.

NEUROTOXICITY:

N/A.

MUTAGENICITY:

N/A.

11. TRANSPORTATION DATA

UN#

1477

HAZARD CLASS:

5.1

ADR//RID CLASS:

5.1

IMDG CLASS:

5.1

AIR TRAN. ICAO/IATA CLASS:

5.1

MARITIME TRAN. IMDG CLASS:

5.1

12. OTHER INFORMATION

THIS SAFETY DATA SHEET SHOULD BE USED IN CONJUNCTION WITH TECHNICAL SHEETS. IT DOES NOT REPLACE THEM. THE INFORMATION GIVEN IS BASED ON OUR KNOWLEDGE OF THIS PRODUCT, AT THE TIME OF PUBLICATION. IT IS GIVEN IN GOOD FAITH. THE ATTENTION OF THE USER IS DRAWN TO THE POSSIBLE RISKS INCURRED BY USING THE PRODUCT FOR ANY OTHER PURPOSE OTHER THAN THAT FOR WHICH IT WAS INTENDED. THIS DOES NOT IN ANY WAY EXCUSE THE USER FROM KNOWING AND APPLYING ALL THE REGULATIONS GOVERNING HIS ACTIVITY. IT IS THE SOLE RESPONSIBILITY OF THE USER TO TAKE ALL PRECAUTIONS REQUIRED IN HANDLING THE PRODUCT. THE AIM OF THE MANDATORY REGULATIONS MENTIONED IS TO HELP THE USER TO FULFILL HIS OBLIGATIONS REGARDING THE USE OF HAZARDOUS PRODUCTS.