

LTS (CHEMICAL) INC.
MATERIAL SAFETY DATA SHEET
PRASEODYMIUM NITRIDE

1. GENERAL

MANUFACTURER/SUPPLIER: LTS RESEARCH LABORATORIES, INC.

COMPANY'S STREET: 37 RAMLAND ROAD
COMPANY'S CITY: ORANGEBURG
COMPANY'S STATE: NEW YORK
COMPANY'S ZIP CODE: 10962
EMERGENCY CHEMTREC #: 800-262-8200
COMPANY'S EMERGENCY TEL. #: 800-424-9300 (LOCAL)
703-527-3887 (INTERNATIONAL)

COMPANY'S TEL #: 845-494-2940
DATE MSDS PREPARED: 04/03/08
DATE MSDS REVISED: 11/05/12
PRASEODYMIUM NITRIDE
CHEMICAL FAMILY: NITRIDES
CHEMICAL FORMULA: PrN
CAS NO.: 25764-09-4

2. HAZARDS IDENTIFICATION

HAZARD DESCRIPTION: Xi Irritant
INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT
R 36/37/38 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
CLASSIFICATION SYSTEM
HMIS RATINGS (SCALE 0-4)
(HAZARDOUS MATERIALS IDENTIFICATION SYSTEM)
HEALTH (ACUTE EFFECTS)=2
FLAMMABILITY=0
REACTIVITY=0

3. PHYSICAL DATA

BOILING POINT (760mmHg): NOT DETERMINED
MELTING POINT: NOT DETERMINED
VAPOR PRESSURE (MM HG): NOT DETERMINED
VAPOR DENSITY: NOT DETERMINED
MOLECULAR WEIGHT: 154.914
APPEARANCE AND ODOR: BLACK POWDER, ODORLESS

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
FLAMMABLE LIMITS: N/A
IGNITION TEMPERATURE: NOT DETERMINED
PRODUCT IS NOT FLAMMABLE. USE FIRE FIGHTING MEASURES THAT SUIT THE SURROUNDING
FIRE. IN CASE OF FIRE, THE FOLLOWING CAN BE RELEASED:
METAL OXIDE FUME
NITROGEN OXIDE (NO_x)
AMMONIA

PROTECTIVE EQUIPMENT:
WEAR SELF-CONTAINED RESPIRATOR.
WEAR FULLY PROTECTIVE IMPERVIOUS SUIT.

5. HEALTH HAZARD INFORMATION

IRRITANT TO SKIN AND MUCOUS MEMBRANES.
IRRITATING EFFECT ON THE EYE.
NO SENSITIZING EFFECTS KNOWN.
SUBACUTE TO CHRONIC TOXICITY:
LANTHANONS CAN CAUSE DELAYED BLOOD CLOTTING LEADING TO HEMORRHAGES. EXPOSURE MAY ALSO LEAD TO SENSITIVITY TO HEAT, ITCHING, INCREASED AWARENESS OF ODOR AND TASTE, AND LIVER DAMAGE.
ADDITIONAL TOXICOLOGICAL INFORMATION:
TO THE BEST OF OUR KNOWLEDGE THE ACUTE AND CHRONIC TOXICITY OF THIS SUBSTANCE IS NOT FULLY KNOWN.
NO CLASSIFICATION OF DATE ON CARCINOGENIC PROPERTIES OF THIS MATERIAL IS AVAILABLE FROM THE EPA, IARC, NTP, OSHA OR ACGIH.

6. EMERGENCY AND FIRST AID PROCEDURES

AFTER INHALATION
SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION. KEEP PATIENT WARM. SEEK IMMEDIATE MEDICAL ADVICE.
AFTER SKIN CONTACT
IMMEDIATELY WASH WITH WATER AND SOAP AND RINSE THOROUGHLY. SEEK IMMEDIATE MEDICAL ADVICE.
AFTER EYE CONTACT
RINSE OPENED EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. THEN CONSULT A DOCTOR.
AFTER SWALLOWING
SEEK IMMEDIATE MEDICAL ADVICE.

7. REACTIVITY DATA

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED:
DECOMPOSITION WILL NOT OCCUR IF USED AND STORED ACCORDING TO SPECIFICATIONS.
MATERIALS TO BE AVOIDED: NONE KNOWN.
DANGEROUS REACTIONS-NO DANGEROUS REACTIONS KNOWN.
DANGEROUS PRODUCTS OF DECOMPOSITION:
NITROGEN OXIDES(NO_x)
AMMONIA
METAL OXIDE FUME

8. SPILL AND DISPOSAL PROCEDURES

RECOMMENDATION
CONSULT STATE, LOCAL OR NATIONAL REGULATIONS TO ENSURE PROPER DISPOSAL.
UNCLEANED PACKAGINGS:
RECOMMENDATION: DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS.

9. STORAGE AND HANDLING

HANDLING

INFORMATION FOR SAFE HANDLING:

KEEP CONTAINER TIGHTLY SEALED. STORE IN COOL, DRY PLACE IN TIGHTLY CLOSED CONTAINERS. ENSURE GOOD VENTILATION AT THE WORKPLACE.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:

THE PRODUCT IS NOT FLAMMABLE.

STORAGE

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

NO SPECIAL REQUIREMENTS.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

NO INFORMATION KNOWN.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

KEEP CONTAINER TIGHTLY SEALED.

STORE IN COOL, DRY CONDITIONS IN WELL SEALED CONTAINERS.

10. TOXICOLOGICAL INFORMATION

SEE HEALTH HAZARD INFORMATION.

11. TRANSPORTATION INFORMATION

NOT REGULATED

HAZARDOUS CLASS:

NOT RESTRICTED

ADR/RID CLASS:

NOT RESTRICTED

IMDG CLASS:

NOT RESTRICTED

AIR TRAN. ICAO/IATA CLASS:

NOT RESTRICTED

MARITIME TRAN. IMDG CLASS:

NOT RESTRICTED

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.