



LTS RESEARCH LABORATORIES, INC.
MATERIAL SAFETY DATA SHEET
SODIUM PHOSPHATE HYDRATE

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: SODIUM PHOSPHATE DODECAHYDRATE
CHEMICAL FORMULA: $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$

MANUFACTURER/SUPPLIER: LTS RESEARCH LABORATORIES, INC.
COMPANY'S STREET: 37 RAMLAND ROAD
COMPANY'S CITY: OANGEBURG
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

RECOMMENDED USE: SCIENTIFIC RESEARCH AND DEVELOPMENT

2. HAZARDS IDENTIFICATION

SIGNAL WORD: DANGER



HAZARD SYMBOLS: CORROSIVE – CAUSES SEVERE SKIN AND EYE BURNS

HMS HEALTH RATINGS (0-4):

HEALTH: 3
FLAMMABILITY: 0
REACTIVITY: 1

3. COMPOSITION

CHEMICAL FAMILY: HYDRATED SALT
ADDITIONAL NAMES: TRISODIUM PHOSPHATE DODECAHYDRATE
SODIUM PHOSPHATE
DODECAHYDRATE ($\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$):
PERCENTAGE: 100 wt%
CAS #: 10101-89-0

4. FIRST AID PROCEDURES

IMPORTANT SYMPTOMS: NONE
SPECIAL TREATMENT: NONE
GENERAL TREATMENT: SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.
INHALATION: REMOVE VICTIM TO FRESH AIR GIVE OXYGEN IF BREATHING IS DIFFICULT.
INGESTION: GIVE 1-2 GLASSES OF MILK OR WATER AND INDUCE VOMITING. NEVER INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
SKIN: WASH AFFECTED AREA WITH MILD SOAP AND WATER. REMOVE CONTAMINATED CLOTHING.
EYES: FLUSH EYES WITH WATER, LIFTING UPPER AND LOWER EYELIDS, FOR 20 MINUTES.

5. FIRE AND EXPLOSION HAZARDS DATA

FLAMMABILITY:	NON-FLAMMABLE
FLASH POINT:	N/A
AUTOIGNITION TEMPERATURE:	N/A
EXTINGUISHING MEDIA:	USE SUITABLE EXTINGUISHING AGENT FOR SURROUNDING MATERIAL AND TYPE OF FIRE.
SPEC. FIRE FIGHTING PROCEDURE:	USE FULL-FACE, SELF-CONTAINED BREATHING APPARATUS WITH FULL PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

6. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED/ SPILLED:	WEAR APPROPRIATE RESPIRATORY AND PROTECTIVE EQUIPMENT SPECIFIED IN SPECIAL PROTECTION INFORMATION. ISOLATE SPILL AREA AND PROVIDE VENTILATION. VACUUM UP SPILL USING A HIGH EFFICIENCY PARTICULATE ABSOLUTE (HEPA) AIR FILTER AND PLACE IN A CLOSED CONTAINER FOR DISPOSAL. TAKE CARE NOT TO RAISE DUST.
ENVIRONMENTAL PRECAUTIONS:	ISOLATE RUNOFF TO PREVENT ENVIRONMENTAL POLLUTION.

7. HANDLING AND STORAGE

HANDLING CONDITIONS:	WASH THOROUGHLY AFTER HANDLING.
HMS PROTECTIVE EQUIPMENT:	GLASSES, GLOVES, APRON, DUST RESPIRATOR
STORAGE CONDITIONS:	STORE IN A COOL DRY PLACE IN A TIGHTLY SEALED CONTAINER.
WORK/HYGIENIC MAINTENANCE:	DO NOT USE TOBACCO OR FOOD IN WORK AREA. WASH THOROUGHLY BEFORE EATING AND SMOKING. DO NOT BLOW DUST OFF CLOTHING OR SKIN WITH COMPRESSED AIR.
VENTILATION:	PROVIDE SUFFICIENT VENTILATION TO MAINTAIN CONCENTRATION AT OR BELOW TLV.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL:	NONE
ACGIH TLV:	NONE
SPECIAL EQUIPMENT:	NONE
RESPIRATORY PROTECTION:	NIOSH APPROVED DUST/MIST RESPIRATOR
PROTECTIVE GLOVES:	RUBBER GLOVES
EYE PROTECTION:	SAFETY GLASSES
BODY PROTECTION:	PROTECTIVE WORK CLOTHING. WEAR CLOSE-TOED SHOES AND LONG SLEEVES/PANTS.
OTHER:	N/A

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

COLOR	WHITE
FORM:	POWDER, PIECES, PELLETS, GRANULES, SPATTERING TARGET
ODOR:	ODORLESS
WATER SOLUBILITY:	258 g/l
pH:	12 AT 10 g/l
BOILING POINT:	N/A
MELTING POINT:	75 °C
DENSITY:	1.62 g/cc
MOLECULAR WEIGHT:	380.12 g/mol

10. REACTIVITY

STABILITY: STABLE
INCOMPATIBILITY: ACIDS, OXIDIZING AGENTS
HAZ. DECOMPOSITION PRODUCTS: SODIUM OXIDE, PHOSPHORUS OXIDE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:
EYE: CAUSES SERIOUS EYE DAMAGE
SKIN: CAUSES SEVERE BURNS
INGESTION: DANGER OF PERFORATION OF ESOPHAGUS AND STOMACH
INHALATION: CAUSES SEVERE BURNS

ROUTES OF ENTRY: INHALATION, SKIN, EYES, AND INGESTION.
TARGET ORGANS: N/A
SIGNS & SYMPTOMS OF EXPOSURE: CHEMICAL BURNS, RED SKIN
MEDICAL CONDITIONS
AGGRAVATED BY EXPOSURE: N/A

LD50: N/A
CARCINOGEN:
NTP: N/A
IARC MONOGRAPHS: N/A
OSHA REGULATED: N/A

12. ECOLOGICAL INFORMATION

ECOLOGICAL DATA IS NOT AVAILABLE.

NOTES: UNDILUTED RUNOFF WILL CAUSE HIGH pH, WHICH IS HARMFUL TO AQUATIC ORGANISMS.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORTATION DATA



HAZARD CLASS: 8 CORROSIVE SUBSTANCES
PACKING GROUP: III
UN NUMBER: UN3262
UN PROPER SHIPPING NAME: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM PHOSPHATE DODECAHYDRATE)

ROAD ADR//RID CLASS: 8 (C6)
AIR IATA CLASS: 8
MARITIME IMDG CLASS: 8
SEGREGATION GROUP: ALKALIS

15. REGULATORY INFORMATION

SEC.302 (EHS): YES
SEC.304 (RQ): N/A
SEC.313 (SARA): NO

16. 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.

DATE MSDS PREPARED: 09/02/14
DATE LAST REVISED: N/A

