



THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471

Emergency Assistance CHEMTREC 1-800-424-9300

SECTION I

PRODUCT AND COMPANY IDENTIFICATION

TETRASODIUM PYROPHOSPHATE

PRODUCT IDENTIFICATION

PRODUCT NAME TETRASODIUM PYROPHOSPHATE

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

PRODUCT NAME: TETRASODIUM PYROPHOSPHATE

SYNONYMS: SODIUM PYROPHOSPHATE, TETRASODIUM DIPHOSPHATE, TSPP

GENERAL USE: DETERGENTS, CLAY DISPERSANTS, OIL WELL DRILLING MUDS, WATER TREATMENT, TEXTILE PROCESSING, BLEACH BATH STABILIZER, DISPERSANT AND COAGULANT IN FOOD SYSTEMS, MOISTURE RETENTION IN MEAT, ETC.

MAY BE USED TO TREAT DRINKING WATER UP TO 14 MG/L

Manufacturer: PHARMCO-AAPER.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # AND COMPONENTS.....: 7722-88-5 TETRASODIUM PYROPHOSPHATE

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW.....: AIRBORNE DUST IS IRRITATING TO NOSE AND THROAT. PRODUCT IS NON-COMBUSTIBLE.

HEALTH EFFECTS.....: EXTREMELY IRRITATING TO UNWASHED RABBIT EYES. IN HUMANS, EXPOSURE TO THE ALKALINE DUST IS ASSOCIATED WITH IRRITATION OF THE EYES AND RESPIRATORY PASSAGES. CONTINUOUS CONTACT WITH SKIN MAY CAUSE IRRITATION.

4. FIRST AID MEASURES

EYES: IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS INTERMITTENTLY. SEE A MEDICAL DOCTOR OR OPHTHALMOLOGIST IMMEDIATELY.

SKIN: WASH WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION, IF IRRITATION OCCURS AND PERSISTS.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING DIFFICULTY OR DISCOMFORT OCCURS AND PERSISTS, SEE A PHYSICIAN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION AND SEE A MEDICAL DOCTOR IMMEDIATELY.

INGESTION: RINSE MOUTH WITH WATER. DILUTE BY GIVING 1 OR 2 GLASSES OF WATER. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEE A MEDICAL DOCTOR IMMEDIATELY. NOTES TO PHYSICIAN: INGESTION OF A LARGE DOSE (E.G. 20 G) MAY NAUSEA AND VOMITING. IF VOMITING IS NOT SPONTANEOUS, DO NOT INDUCE. PHOSPHATES ARE LAXITIVES. TREATMENT IS SYMPTOMATIC AND SUPPORTIVE.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA.....: NOT APPLICABLE
SPECIAL FIREFIGHTING.....: NOT APPLICABLE
PROCEDURES
DEGREE OF FIRE AND.....: NONE
EXPLOSION HAZARD
HAZARDOUS DECOMPOSITION..: NONE
PRODUCTS

6. ACCIDENTAL RELEASE MEASURES

PROCEDURE FOR RELEASE....: SWEEP UP AND RETURN TO PROCESS IF POSSIBLE, OR SPILL EXCEPT IN FOOD APPLICATIONS.

7. HANDLING AND STORAGE

HANDLING: AVOID CONTACT WITH PRODUCT BY USING EYE PROTECTION AND LONG SLEEVE SHIRT. AIRVEY BULK PRODUCT FROM TRUCK OR RAIL CAR. USE RESPIRATORY AND PERSONALPROTECTIVE EQUIPMENT FOR MANUAL UNLOADING OF BULK PRODUCT. USE EXHAUST SYSTEM WHEN OPENING AND EMPTYING BAGS.
VENTILATION: PROVIDE MECHANICAL LOCAL EXHAUST VENTILATION TO PREVENT RELEASE OF DUST INTO WORK ENVIRONMENT. IF VENTILATION IS INADEQUATE OR NOT AVAILABLE, USE RESPIRATORY AND EYE PROTECTION TO PREVENT IRRITATION.
STORAGE: STORE IN DRY AREA FOR PRODUCT STABILILTY. FOR FOOD APPLICATIONS, STORE AWAY FROM OTHER CHEMICALS; DO NOT RETURN SPILLED MATERIAL TO PROCESS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL MEASURES.....: PROVIDE MECHANICAL LOCAL EXHAUST VENTILATION TO PREVENT RELEASE OF DUST INTO WORK AREA. IF VENTILATION IS INADEQUATE OR NOT AVAILABLE, USE RESPIRATORY PROTECTION AND EYE PROTECTION TO PREVENT IRRITATION.
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT
RESPIRATORY.....: USE APPROVED DUST RESPIRATOR.
EYES.....: SAFETY GLASSES WITH SIDE SHEILDS.
GLOVES.....: WORK GLOVES
SPECIAL CLOTHING...: LONG SLEEVE SHIRT.
AND EQUIPMENT
FOOTWEAR.....: SAFETY SHOES.

9. PHYSICAL AND CHEMICAL PROPERTIES

MELTING/FREEZING POINT...: 988 C
BOILING POINT.....: OVER 1000 C
VAPOR PRESSURE.....: NON-VOLATILE
VAPOR DENSITY (AIR=1)....: NON-VOLATILE
ROOM TEMPERATURE.....: WHITE POWDER OR GRANULES
APPEARANCE AND STATE
ODOR.....: NONE
SPECIFIC GRAVITY (H2O=1)..: BULK DENSITY 1.0 G/ML
SOLUBILITY IN H2O % BY WT: 7 @ 25 C
% VOLATILES.....: NON-VOLATILE
EVAPORATION RATE.....: NON-VOLATILE
(BUTYL ACETATE=1)
PH (AS IS).....: NOT APPLICABLE
PH (1% SOLUTION).....: 10
ODOR THRESHOLD.....: NOT APPLICABLE
DENSITY (G/ML).....: 1.0
PARTITION COEFFICIENT....: NOT AVAILABLE

N-OCTANOL/WATER
FLASH POINT.....: NON COMBUSTIBLE
AUTOIGNITION TEMPERATURE.: NON COMBUSTIBLE
FLAMMABLE LIMITS UPPER..: NOT APPLICABLE
(AIR) LOWER..: NOT APPLICABLE
EXPLOSIVE PROPERTIES.....: NONE
OXIDIZING PROPERTIES.....: NONE
SOLUBILITY.....: NO DATA
- FAT SOLUBILITY
(SOLVENT - OIL)

10. STABILITY AND REACTIVITY

STABILITY.....: STABLE
HAZARDOUS POLYMERIZATION.: WILL NOT OCCUR
CONDITIONS TO AVOID.....: NOT APPLICABLE
MATERIALS TO AVOID.....: NOT APPLICABLE
MAJOR CONTAMINANTS THAT.: NONE
CONTRIBUTE TO INSTABILITY
INCOMPATIBILITY.....: NOT APPLICABLE
HAZARDOUS DECOMPOSITION..: NOT APPLICABLE
PRODUCTS
SENSITIVITY TO MECH.....: NONE
IMPACT
SENSITIVITY TO STATIC....: NONE
DISCHARGE

11. TOXICOLOGICAL INFORMATION

EYE CONTACT.....: EXTREMELY IRRITATING TO UNWASHED EYES AND
MINIMALLY IRRITATING TO WASHED EYES (RABBIT).
SOURCE: FMC REPORT I86-0916
SKIN CONTACT.....: NONIRRITATING (RABBIT)
SOURCE: FMC REPORT I88-1008 DATE: 1988
SKIN ABSORPTION.....: LD50 > 2000 MG/KG (RABBIT)
SOURCE: FMC REPORT I88-1009 DATE: 1988
INHALATION.....: NO DATA AVAILABLE.
INGESTION.....: LD50 = 4000 MG/KG (RAT)
SOURCE: RTECS DATE: 1980
ACUTE EFFECTS FROM.....: TSPP HAS LOW ORAL AND DERMAL TOXICITY. TSPP IS
OVEREXPOSURE SEVERELY IRRITATING TO THE EYES, AND IS EXPECTED
TO BE IRRITATING TO THE RESPIRATORY TRACT AND
MUCOUS MEMBRANES. IT IS NON-IRRITATING TO THE
SKIN. INGESTION MAY BE ASSOCIATED WITH NAUSEA
OR VOMITING, SALIVATION, DIARRHEA, OCCASIONAL
ABDOMINAL DISCOMFORT AND INTESTINAL DISTENSION.
CHRONIC EFFECTS FROM.....: NO DATA AVAILABLE FOR PRODUCT
OVEREXPOSURE
CARCINOGENICITY,
IARC NOT LISTED
NTP NOT LISTED
OSHA NOT LISTED
OTHER ACGIH NOT LISTED

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE.....: INORGANIC PHOSPHATES IN CONTACT WITH THE SOIL,
SUB-SURFACE OR SURFACE WATERS MAY BE TAKEN UP
BY PLANTS AND UTILIZED AS ESSENTIAL NUTRIENTS.
PHOSPHATES MAY ALSO FORM PRECIPITATES, USUALLY
WITH CALCIUM OR MAGNESIUM. THE RESULTANT
COMPOUNDS ARE INSOLUBLE IN WATER AND BECOME A
PART OF THE SOIL OR SEDIMENT. THE TERM
BIODEGRADABILITY, AS SUCH, IS NOT APPLICABLE TO
INORGANIC COMPOUNDS.
ENVIRONMENTAL EFFECTS....: AQUATIC TOXICITY DATA (SODIUM TRIPOLYPHOSPHATE)
96 HR LC50 > 100 MG/L, NON-TOXIC (RAINBOW
TROUT, INLAND SILVERSIDES AND MYSID SHRIMP)
FMC STUDIES I89-1081, -1082 & -1083
48 HR EC50 > 100 MG/L, NON-TOXIC (DAPHNIA
MAGNA) FMC STUDY I89-1084

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD....: MAY BE DISPOSED IN SANITARY LANDFILL ACCORDING
TO GOVERNMENTAL REGULATIONS.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME.: NONE, NOT REGULATED
IATA: NONE, NOT REGULATED
IMDG: NONE, NOT REGULATED
DOT CLASSIFICATION: NOT REGULATED
DOT LABELS: NOT REQUIRED
DOT MARKING: NOT REQUIRED
DOT PLACARD: NOT REQUIRED
UN NUMBER: NOT APPLICABLE
HAZARDOUS SUBSTANCE/RQ: NOT LISTED
49 STCC NUMBER: NOT APPLICABLE
PRECAUTIONS TO BE TAKEN: NONE
IN TRANSPORTATION
OTHER SHIPPING: SHIPPED IN BULK OR MULTIWALL PAPER BAGS.
INFORMATION

15. REGULATORY INFORMATION

OSHA
EXPOSURE LIMITS
U.S. EPA REQUIREMENTS
RELEASE REPORTING
CERCLA (40 CFR 302)
LISTED SUBSTANCE(S).....: NO
RQ: NOT APPLICABLE
CATEGORY: NOT APPLICABLE
RCRA WASTE NO: NOT APPLICABLE
UNLISTED SUBSTANCE(S)...: NO
RQ: NOT APPLICABLE
CHARACTERISTIC: NOT APPLICABLE
RCRA WASTE NO: NOT APPLICABLE
SARA TITLE III SEC 313
(40 CFR 372): TETRASODIUM PYROPHOSPHATE
LISTED TOXIC CHEMICAL: NO
INVENTORY REPORTING
SARA TITLE III SEC 311/312
(40 CFR 370)
SUBSTANCE(S): TETRASODIUM PYROPHOSPHATE
HAZARD CATEGORY: IMMEDIATE (ACUTE) HEALTH HAZARD
PLANNING THRESHOLD: 10,000 LBS
EMERGENCY PLANNING
SARA TITLE III SEC 302-303
(40 CFR 355)
LISTED SUBSTANCE(S): NO
RQ: NOT APPLICABLE
PLANNING THRESHOLD: NOT APPLICABLE
U.S. TSCA STATUS: LISTED
WHMIS WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM
HAZARD SYMBOLS: MATERIALS CAUSING OTHER TOXIC EFFECTS.
CLASS & DIVISION: CLASS D, DIV. 2, SUBDIV. B (Toxic)
PRODUCT IDENTIFICATION NO: 2811
INGREDIENT DISCLOSURE LIST: LISTED
LABEL LANGUAGE (US/CANADA)
HEALTH: AIRBORNE DUST IS IRRITATING TO NOSE AND THROAT.
DIRECT CONTACT WITH EYES MAY PRODUCE IRRITATION.
PHYSICAL: NOT APPLICABLE
HANDLING AND STORAGE: STORE IN DRY AREA FOR PRODUCT QUALITY ASSURANCE.
USE RESPIRATORY AND EYE PROTECTION IF DUST IS EXPECTED.
FIRST AID: IMMEDIATELY FLUSH EYES AND SKIN WITH PLENTY OF WATER. IF IRRITATION OCCURS, OBTAIN MEDICAL
STATE REGULATIONS.....: CALIFORNIA PROPOSITION 65 -SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT OF 1986. THIS ACT REQUIRES THE GOVERNMENT OF CALIFORNIA TO DEVELOPE LISTS OF CARCINOGENS AND REPRODUCTIVE TOXINS AND THAT NO PERSONS DOING BUSINESS SHALL KNOWINGLY EXPOSE ANY INDIVIDUAL TO A CHEMICAL ON THOSE LISTS WITHOUT FIRST GIVING CLEAR AND REASONABLE WARNING TO SUCH INDIVIDUAL.
FOOD GRADE COMPLIES WITH FDA GRAS AND IS SANCTIONED FOR USE IN FOOD, USDA SANCTIONED FOR MEATS.
TECHNICAL GRADE CONTAINS UP TO 90 PPM ARSENIC,

2 PPM CADMIUM AND 7 PPM LEAD FROM THE LISTS.

16. OTHER INFORMATION

PRODUCT USES.....: DETERGENTS, CLAY DISPERSANTS, OIL WELL DRILL-
ING MUDS, WATER TREATMENT, TEXTILE PROCESSING,
BLEACH BATH STABILIZER, DISPERSANT AND COAGULANT
IN FOOD SYSTEMS, MOISTURE RETENTION IN MEAT,
ETC.

MAY BE USED TO TREAT DRINKING WATER UP TO
14 MG/L.

NFPA 704

HEALTH.....: 3

FLAMMABILITY.....: 0

REACTIVITY.....: 0

SPECIAL HAZARD.....:

(DEGREE OF HAZARD

0 = NO HAZARD

4 = SEVERE HAZARD)

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

HEALTH.....: 3

FLAMMABILITY.....: 0

REACTIVITY.....: 0

PERSONAL PROTECTION INDEX (PPI): J

(SAFETY GOGGLES, GLOVES, APRON &
COMBINATION DUST AND VAPOR RESPIRATOR)

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.