

FMC CORPORATION; PHOSPHOROUS CHEMICALS DIVISION -- SODIUM TRIPOLYPHOSPHATE --  
6810-00-753-5053

===== Product Identification =====

Product ID:SODIUM TRIPOLYPHOSPHATE

MSDS Date:05/26/1998

FSC:6810

NIIN:00-753-5053

Status Code:A

MSDS Number: CKJGV

=== Responsible Party ===

Company Name:FMC CORPORATION; PHOSPHOROUS CHEMICALS DIVISION

Address:1735 MARKET ST

City:PHILADELPHIA

State:PA

ZIP:19103

Country

:US

Info Phone Num:215-299-6000

Emergency Phone Num:785-749-8100

Resp. Party Other MSDS Num.:7758-29-4

Chemtrec Ind/Phone:(800)424-9300

CAGE:MO680

=== Contractor Identification ===

Company Name:FMC CORPORATION; PHOSPHOROUS CHEMICALS DIVISION

Address:1735 MARKET ST

Box:City:PHILADELPHIA

State:PA

ZIP:19103

Country:US

Phone:215-299-6000

CAGE:MO680

Company Name:LOS ANGELES CHEMICAL CO

Address:4545 ARDINE ST

Box:1987

City:SOUTH GATE

State:CA

ZIP:90280

Country:US

Phone:213-562-9500

Contract Num:SP0450

-00-M-D758  
CAGE:75656

=====  
Composition/Information on Ingredients  
=====

Ingred Name:SODIUM TRIPOLYPHOSPHATE  
CAS:7758-29-4  
RTECS #:YK4570000  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:ORAL LD50(RAT): >2000MG/KG  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:PRODUCT IS MILDLY IRRITATING TO THE  
EYES. SKIN IRRITATION FROM CONTINUOUS CONTACT HAS BEEN  
REPORTED

DURING MANUFACTURING WHEN PROTECTIVE MEASURES FOR CONTACT OR  
PERSONAL HYGIENE PROCEDURES ARE NOT FOL LOWED. HUMAN INDUSTRIAL  
EXPERIENCE HAS SHOWN NO SIGNIFICANT INHALATION HAZARD OR SKIN  
IRRITATION WHEN EXPOSURES ARE PROPERLY CONTROLLED. CHRONIC: CHRONIC  
EXPOSURE TO VERY HIGH LEVELS OF THIS PRODUCT P RODUCES KIDNEY  
DAMAGE AND IMPAIRED BONE DEVELOPMENT IN LABORATORY ANIMALS.  
HOWEVER, PRODUCT IS LISTED BY THE UNITED STATES FOOD AND DRUG  
ADMINISTRATION AS A  
GENERALLY RECOGNIZED AS SAFE (GRAS) FOOD AD  
DITIVE.

Explanation of Carcinogenicity:ACGIH: NOT LISTED.  
Effects of Overexposure:PRODUCT IS MILDLY IRRITATING TO THE EYES AND  
NON-IRRITATING TO THE SKIN.  
Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY RESPONSIBLE  
PARTY.

=====  
First Aid Measures  
=====

First Aid:EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION  
OCCURS & PERSISTS, OBTAIN MEDICAL ATTENTION. SKIN: WASH WITH PLENTY

OF SOAP & WATER. GET MEDICAL ATTENTION IF IRRITATION OCCURS &  
PERSISTS . INGESTION: DRINK 1 TO 2 GLASSES OF WATER. NEVER GIVE  
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON IF DISCOMFORT PERSISTS,  
OBTAIN MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. IF  
BREATHING DIFFIC ULTY OR DISCOMFORT OCCURS & PERSISTS, OBTAIN  
MEDICAL ATTENTION. NOTES TO MD: THIS PRODUCT CAUSES MILD EYE  
IRRITATION & IS NON-IRRITATING TO SKIN. TREATMENT IS CONTROLLED  
REMOVAL OF EXPOSURE WITH

SYMPTOMATIC & SUPPORTIVE CARE.

=====  
===== Fire Fighting Measures =====

Flash Point:NON-COMBUSTIBLE

Extinguishing Media:NON-COMBUSTIBLE.

Fire Fighting Procedures:NOT APPLICABLE.

Unusual Fire/Explosion Hazard:NONE. SENSITIVITY TO STATIC DISCHARGE:

NONE. SENSITIVITY TO IMPACT: NONE.

=====  
===== Accidental Release Measures =====

Spill Release Procedures:MATERIAL SHOULD BE SWEEPED UP FOR SALVAGE OR DISPOSAL.

Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY.

=====  
===== Handling and Storage =====

Handling and Storage Precautions:ANIMAL STUDIES AND MANUFACTURING EXPERIENCE INDICATE THAT EXPOSURE TO THE PRODUCT MAY RESULT IN EYE AND SKIN IRRITATION UNDER NORMAL CONDITIONS OF USE. IN THE EVENT OF CONTACT, IMMEDIATELY FLUSH EYES WITH WATER; WASH SKIN WITH SOAP AND WATER.

Other Precautions:THE PRODUCT SHOULD BE STORED IN A CLEAN DRY AREA TO MAINTAIN PRODUCT QUALITY AND TO PREVENT POSSIBLE CONTAMINATION BY

OTHER CHEMICALS. COMMENTS: VENTILATION: CONTROL MEASURES SUCH AS LOCAL EXHAUST VENTILATION MAY BE REQUIRED WHERE EXCESSIVE AIRBORNE DUST LOADING MAY BE PRESENT.

=====  
===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE APPROVED RESPIRATORY PROTECTION IF RELEASE OF THE PRODUCT INTO THE WORK AREA IS EXPECTED.

Ventilation:CONTROL MEASURES SUCH AS LOCAL EXHAUST VENTILATION MAY BE REQUIRED WHERE EXCESSIVE AIRBORNE DUST LOADING MAY BE PRESENT.

Protective Gloves:USE IMPERVIOUS GLOVES WHEN CONTINUOUS CONTACT IS EXPECTED.

Eye Protection:WEAR CHEMICAL GOGGLES WHEN AIRBORNE DUST IS EXPECTED.

Other Protective Equipment:USE LONG SLEEVED WORK SHIRT TO REDUCE EXPOSED SKIN AREA.

Work Hygienic Practices:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Supplemental Safety and Health

PREVENTION OF EYE & SKIN CONTACT MAY BE REQUIRED UNDER NORMAL USE CONDITIONS. HOWEVER, SEVERE AGITATION OR DISPERSION INTO THE WORK

K

ENVIRONMENT MAY REQUIRE ENCLOSURE OF THE PROCESS & LOCAL EXHAUST VENTILATION AT THE SOURCE TO PREVENT RELEASE INTO THE AIR.

===== Physical/Chemical Properties =====

HCC:B3

Boiling Pt:>1000.C, 1832.F

Melt/Freeze Pt:=622.C, #####F

Vapor Pres:NON-VOLITILE

Vapor Density:N/VOLITILE

Spec Gravity:0.5 - 1.2 G/ML

pH:10@25C

Evaporation Rate & Reference:NON-VOLITILE (BUAC=1)

Solubility in Water:13

Appearance and Odor:WHITE GRANULES OR POWDER; NO ODOR

Percent Vo

latiles by Volume:NON-VOLITILE

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE.

Stability Condition to Avoid:NONE.

Hazardous Decomposition Products:NONE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:EYE EFFECTS: MILDLY IRRITATING (RABBIT) [FMC 186-917].SKIN EFFECTS: NON-IRRITATING (RABBIT) [FMC 188-1047].

DERMAL LD50: N

NO DATA AVAILABLE FOR THE PRODUCT. ORAL LD50: >2000

MG/KG (RAT) [FMC STUDY 197- 2169]. INHALATION LC50: 0.39 MG/L

(RAT)(4 HR) (MAXIMUM ATTAINABLE DUST CONCENTRATION) [FMC STUDY 188-1011]. ACUTE EFFECTS FROM OVEREXPOSURE: PRODUCT IS MILDLY

IRRITATING TO EYES & NONIRRITATING TO SKIN. CHRONIC EFFECTS:

CHRONIC EXPOSURE TO VERY HIGH LEVELS OF PRODUCT PRODUCES KIDNEY

DAMAGE & IMPAIRED BONE DEVELOPMENT IN LABORATORY ANIMALS. HOWEVER,

PRODUCT IS LISTED BY US FDA AS A GENERAL

Y RECOGNIZED AS SAFE  
(GRAS) FOOD ADDITIVE.

===== Ecological Information =====

Ecological: ECOTOXICOLOGICAL INFORMATION: 96 HR LC50 > 100 MG/L, NON-TOXIC (RAINBOW TROUT, INLAND SILVERSIDES AND MYSID SHRIMP). [FMC STUDY 189-1081], 1082 & 1083] 48 HR EC50 > 100 MG/L, NON-TOXIC (DAPHNIA MAGNA) [FMC 189-1084]. CHEMICAL FATE INFORMATION: INORGANIC COMPOUNDS 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 IN THE FORM OF CALCIUM OR MAGNESIUM. THE RESULTANT COMPOUNDS ARE INSOLUBLE IN WATER AND BECOME PART OF THE SOIL OR SEDIMENT. THE TERM BIODEGRADABILITY, AS SUCH, IS NOT APPLICABLE TO INORGANIC COMPOUNDS.

===== Disposal Considerations =====

Waste Disposal Methods: THIS PRODUCT DOES NOT PRESENT A DANGER OR HAZARD FOR DISPOSAL. EXCEPT FOR FOOD APPLICATIONS, SALVAGE AND RETURN TO CONTAINER. PROCESS OR RECYCLE FOR OTHER USES. MAY BE DISPOSED OF IN LANDFILLS ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information: US DOT (DEPARTMENT OF TRANSPORTATION): PROPER SHIPPING NAME: NOT REGULATED. UN/NA NUMBER: NONE. PLACARDS: NOT REQUIRED. LABEL: NOT REQUIRED. OTHER SHIPPING INFORMATION: DOT MARKING: NOT APPLICABLE. HAZARDOUS SUBSTANCE/RQ: NOT LISTED. 49

STCC NUMBER: NOT APPLICABLE. SPECIAL SHIPPING NOTES: IMDG: NOT REGULATED. IATA: NOT REGULATED.

===== Regulatory Information =====

SARA Title III Information: SECTION 311 HAZARD CATEGORY (40 CFR 370): NOT APPLICABLE. SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370): NOT APPLICABLE. SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372): NOT APPLICABLE. SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): NOT LISTED.

Federal Regulatory Inform

ation:CERCLA REGULATORY (40 CFR 302.4):

LISTED. CERCLA: SODIUM TRIPOLYPHOSPHATE (STPP) - 5000 LBS.

State Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.