

MATERIAL SAFETY DATA SHEET

Wel-Cote™ Trisodium Phosphate
10/08/02

FILE NO: TSP
MSDS DATE:

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Wel-Cote® Trisodium Phosphate
 SYNONYMS: Phosphoric acid, Tribasic
 PRODUCT CODES: 527(1 lb.), 528(5 lb.), 529(25 lb.)
 MANUFACTURER: Welco Manufacturing Company
 ADDRESS: 1225 Ozark Street, North Kansas City, Missouri 64116

EMERGENCY PHONE: (800)821-7352
 OTHER CALLS: (816)471-1788
 FAX PHONE: (816) 471-3439

CHEMICAL FAMILY: Phosphates
 CHEMICAL FORMULA: Na3PO4

PRODUCT USE: Cleaning solutions.
 PREPARED BY: Robert L. Hamilton

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS Number	% WT	% VOL	TLV (mg/m ³)	PEL(mg/m ³)
Trisodium Phosphate	7601-54-9100	100	NE	NE	

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not hazardous when used according to directions.

ROUTES OF ENTRY: Eyes, Mouth, and Nose

POTENTIAL HEALTH EFFECTS

EYES: Contact can cause mechanical and/or chemical irritation.

SKIN: Prolonged contact may cause irritation and/or chemical burns. Wash with soap and water. If irritation persists, contact a physician.

INGESTION: Material is nontoxic, however, ingestion of a significant quantity may cause an obstruction and/or chemical burns. If gastric or respiratory discomfort occurs, contact a physician.

INHALATION: Inhalation of dust may irritate nose, throat, and lungs. Remove to fresh air. Seek medical attention if condition persists.

ACUTE HEALTH HAZARDS

EYES: May cause mechanical irritation of the eyes, burning, redness, or pain. If these conditions persist, contact a physician.

SKIN: May cause chemical burns and or irritation.

INHALATION: The dust from dry product may cause upper respiratory irritation. If this condition develops, remove the person to fresh air. If these conditions persist, contact a physician.

INGESTION: Unlikely to occur. If significant quantity is swallowed, the product will react with moisture and cause gastric blockage. If this occurs, contact a physician.

CHRONIC HEALTH HAZARDS: Chronic overexposure to dust may result in lung disease and/or cancer.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing upper respiratory and lung diseases, which may include, but are not limited to, bronchitis, emphysema, and asthma.

CARCINOGENICITY

MATERIAL

NTP:

IARC:

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SECTION 4: FIRST AID MEASURES

EYES: Rinse with water for at least 15 minutes. If redness or irritation persists, consult physician.

SKIN: Rinse with soap and water. If irritation persists, consult physician.

INGESTION: Give milk or water to dilute. If nausea or irritation or gastric blockage occurs, consult physician.

INHALATION: Remove to fresh air. If respiratory symptoms persist, consult physician.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Rinse affected areas with water.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None
LOWER: None

FLASH POINT: Non-Combustible

AUTOIGNITION TEMPERATURE: None

NFPA HAZARD CLASSIFICATION

HEALTH: 1
OTHER: N/A

FLAMMABILITY: 0

REACTIVITY: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 1
PROTECTION: E

FLAMMABILITY: 0

REACTIVITY: 0

EXTINGUISHING MEDIA: Use appropriate extinguishing media for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: NIOSH/MSHA Respirator

UNUSUAL FIRE AND EXPLOSION HAZARDS: Water solutions are highly alkaline.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen gas may be generated from contact with aluminum.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use normal clean up procedures. Area may become slick, take caution to avoid falling. Wear appropriate protective equipment. Shovel material into a waste container for disposal.

SECTION 6 NOTES: Dispose of material in accordance with federal, state, and local regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Use appropriate personal protection equipment when handling and finishing.

OTHER PRECAUTIONS: Store in dry conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Minimize dust exposure in accordance with good hygiene practices.

VENTILATION : Ventilate to keep exposures below TLV.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respirator.

EYE PROTECTION: Wear safety glasses or goggles to prevent particulate irritation to the eye.

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SKIN PROTECTION: Generally not necessary, but may be desirable in certain conditions.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear liquid-proof/chemical gloves.

WORK HYGIENIC PRACTICES: Follow acceptable good hygiene practices.

EXPOSURE GUIDELINES: Avoid breathing dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White crystals.

ODOR: Low odor.

PHYSICAL STATE: Dry powder.

pH AS SUPPLIED: 12-14 in water.

BOILING POINT:

F:

C:

MELTING POINT: Decomposes

F: 1500°

C: 2732°

FREEZING POINT:

F: N/A

C: N/A

VAPOR PRESSURE (mmHg): N/A

@

F: 20°

C: -8°

SPECIFIC GRAVITY (H₂O = 1): 1.5-2.5

SOLUBILITY IN WATER: 12%

PERCENT SOLIDS BY WEIGHT: 100

PERCENT VOLATILE:

BY WT/ BY VOL @ 212°F/ 100°C

0

0

VOLATILE ORGANIC COMPOUNDS (VOC):

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: Yes

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Water solutions in contact with aluminum.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): None.

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Acute toxicity: LD50(oral-rat) 20% aqueous solution- 6.5g/kg

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No effect known.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local regulations, as these will differ from one area to the next.

RCRA HAZARD CLASS: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Wel-Cote® Trisodium Phosphate

HAZARD CLASS: 9.2

ID NUMBER: NMFC 46670

PACKING GROUP: III

LABEL STATEMENT: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: None

STATE REGULATIONS: None

INTERNATIONAL REGULATIONS: None