

MATERIAL SAFETY DATA SHEET

NOBURST[®] SYSTEM PRECLEANER

1. CHEMICAL PRODUCT IDENTIFICATION

Date Prepared: 5/01/10

PRODUCT NAME: NOBURST[®] SYSTEM PRECLEANER

Manufacturer's Name

THE NOBLE COMPANY

Address

7300 Enterprise Drive
Spring Lake, MI 49456

Emergency Telephone Number (231) 799-8000

Telephone Number for Information (231) 799-8000

SYNONYMS: Trisodiuim Phosphate Dodecahydrate, TSP Crystals TSP Crystalline, TSP-X

CAS # AND COMPONENTS: 10101-89-0 Trisodium Phosphate Crystals

2. 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 the skin causes irritation.

3. FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids intermittently. See an ophthalmologist.

SKIN: Wash with water. If irritation occurs and persists, call a physician.

INHALATION: Remove from exposure. If breathing difficulty or discomfort occurs, obtain medical attention.

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 physician immediately.

NOTES TO PHYSICIAN: Strongly Alkaline, may remove sebaceous oils leaving skin unprotected and may cause chemical burns. Accessible exposed tissues should be flushed thoroughly with water, and any corneal burns warrant consultation of an ophthalmologist. Ingestion may result in nausea, vomiting, and burns, especially of the esophagus. Attempts to neutralize ingested material with acids is not recommended. This may cause excess heat and gas production, which can increase the risk of perforation. Dilution may do likewise, but when the dry material is ingested, adherence of particles to the Esophageal Mucous may assure perforation so that immediate drinking of cold water or milk is advised. Burns of the Esophagus and/or Stomach sufficient to lead to perforation and/or stricture formation may occur without Oropharyngeal burns. Accordingly, most authorities recommend limited Esophagoscopy sufficient to determine if deep and/or circumferential burns are present, because they are most likely to result in Esophageal Stenosis. Prevention of the latter is controversial, though most authorities favor early Corticosteroid and/or Prophylactic Dilation Therapy.

4. FIRE FIGHTING MEASURES**EXTINGUISHING MEDIA**

Not Applicable

SPECIAL FIREFIGHTING PROCEDURES

Not Applicable

DEGREE OF FIRE &**EXPLOSION HAZARD:** None**HAZARDOUS DECOMPOSITION****PRODUCTS:** None**5. ACCIDENTAL RELEASE MEASURES****PROCEDURE FOR RELEASE OR SPILL:** Sweep up and return to process, if possible.**6. HANDLING AND STORAGE****HANDLING:** Avoid contact with product by using eye protection and long sleeved shirt. Use respiratory and personal protective equipment if local exhaust is not available or ineffective. Open and empty bags with exhaust system.**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 stability. For food applications keep away from other chemicals.**7. EXPOSURE CONTROLS/PERSONAL PROTECTION****CONTROL MEASURES:** Provide mechanical local exhaust ventilation to prevent release of dust into the work area. If release is expected, use respiratory and eye protection as indicated below.**RECOMMENDED PERSONAL PRETECTIVE EQUIPMENT****RESPIRATORY:** Use approved dust respirator**EYES:** Safety glasses with side shields**GLOVES:** Work gloves**SPECIAL CLOTHING AND EQUIPMENT:** Long sleeve shirt**FOOTWEAR:** Safety shoes**8. PHYSICAL AND CHEMICAL PROPERTIES****MELTING/FREEZING POINT**75 C, -4H₂O @ 95 C**BOILING POINT**

Not Applicable

VAPOR PRESSURE

Non-Volatile

VAPOR DENSITY (AIR=1)

Non-Volatile

ROOM TEMPERATURE

White Crystals

9. APPEARANCE AND STATE**ODOR**

None

SPCIFIC GRAVITY (H₂O=1)

Bulk Density 0.9 G/ML

SOLUBILITY IN H₂O % BY WT

33 @ 25 C

% VOLATILES

Non-Volatile

EVAPORATION RATE**(BUTYL ACETATE=1)**

Non-Volatile

PH (AS IS)

Not Applicable

PH (1% SOLUTION)

11.9

ODOR**THRESHOLD**

Not Applicable

DENSITY (G/ML)

0.92

PARTITION COEFFICIENT**N-OCTANOL/WATER**

Not Available

FLASH POINT

Non Combustible

AUTOIGNITION**TEMPERATURE**

Non Combustible

FLAMMABLE LIMITS UPPER: Not Applicable
LOWER: Not Applicable**EXPLOSIVE PROPERTIES:** None
OXIDIZING PROBERTIES: None

SOLUBILITY/ - FAT SOLUBILITY/ (SOLVENT – OIL): No Data

NOBURST® SYSTEM PRECLEANER (CON'T.)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID Not Applicable	HAZARDOUS POLYMERIZATION Will Not Occur	STABILITY Stable
MATERIALS TO AVOID Not Applicable	MAJOR CONTAMINANTS THAT CONTRIBUTE TO INSTABILITY Not Applicable	INCOMPATIBILITY Not Applicable
SENSITIVITY TO STATIC DISCHARGE: None SENSITIVITY TO MECH IMPACT: None		HAZARDOUS DECOMPOSITION PRODUCTS Not Applicable

11. TOXICOLOGICAL INFORMATION

EYE CONTACT: Extremely irritating to unwashed eyes. Moderately irritating to washed eyes (rabbit). These data are for Trisodium Phosphate Anhydrous.

Source: FMC Report I86-0926 1987

SKIN CONTACT: Minimally irritating at 300 and 20 MG/KG (rabbit). These data are for Trisodium Phosphate Anhydrous.

Source: FMC Report I87-0956 1987

SKIN ABSORPTION: LD50 greater than 300 MG/KG (rabbit). These data are for Trisodium Phosphate Anhydrous.

Source: FMC Report I87-0956 1987

INHALATION: No Data Available

INGESTION: 20% Aqueous Solution LD50 (rat) = 6.5 G/KG

Source: AIHA J. 43, NO. 10, 1982

ACUTE EFFECTS FROM OVEREXPOSURE: Inhalation of heavy dust may severely irritate nose and throat. Ingestion may injure mouth, throat, and gastrointestinal tract. Contact with eyes produces extreme irritation.

CRONIC EFFECTS FROM OVEREXPOSURE: (Effects considered include: Sensitivities, Carcinogenicity, Teratogenicity, Mutagenicity, Synergistic Products, and any medical conditions generally recognized as being aggravated by exposure.) Although no long-term human studies have been reported, there are no reported chronic effects that warrant control beyond that required avoiding irritation from airborne dust. Sensitivities, Teratogenicity, Mutagenicity, Synergistic products, Reproductive Toxicity and any medical conditions generally recognized as being aggravated by exposure were examined. No information was found or available.

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 (For Disodium Phosphate) 96 HR LC50 > 100 MG/L, Non-Toxic (Rainbow Trout, Inland Silversides and Mysid Shrimp.) FMC studies I89-1085, -1086 & -1087

48 HR EC50 > 100 MG/L, Non-Toxic (Daphnia Magna) FMC study I89-1088

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: May be disposed in sanitary landfill according to governmental regulations.

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14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME Not Regulated	IATA Not Regulated	IMDG Not Regulated	DOT CLASSIFICATION Not Regulated	DOT LABELS Not Required
DOT MARKING Not Required	DOT PLACARD Not Required	UN NUMBER None	HAZARDOUS SUBSTANCE/RQ Not Listed	49 STCC NUMBER Not Applicable

PRECAUTIONS TO BE TAKEN IN TRANSPORTATION

Material is strongly basic (Alkaline). Take care to avoid eye contact. May cause irritation

15. REGULATORY INFORMATION

OSHA EXPOSURE LIMITS

SUBSTANCE (S): Trisodium Phosphate Crystals

OSHA PEL-TWA: Not Applicable

STEL: Not Applicable

CEILING: Not Applicable

SKIN DESIGNATION: Not Applicable

ACGIH TLV-TWA: Not Applicable

STEL: Not Applicable

CEILING: Not Applicable

SKIN DESIGNATION: Not Applicable

TARGET ORGAN EFFECTS

Eyes and Respiratory Passages

CARCINOGENIC POTENTIAL

Trisodium Phosphate Crystals

REGULATED BY OSHA

No

LISTED ON NTP REPORT

No

IARC GROUP 1, 2A, 2B

No

16. 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): Trisodium Phosphate Crystals

LISTED TOXIC CHEMICAL: No

REPORTING THRESHOLD: Not Applicable

-INVENTORY REPORTING-

SARA TITLE III SEC 311-312

(40 CFR 370)

SUBSTANCE (S): Trisodium Phosphate Crystals

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

U.S. TSCA STATUS: Classified as a mixture of Trisodium Phosphate Anhydrous (CAS NO. 7601-54-9)

RQ: Not Applicable

PLANNING THRESHOLD: Not Applicable

And water as defined by EPA.

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17. CANADA

INGREDIENT DISCLOSURE LIST: Trisodiuim Phosphate Crystals

CONTROLLED PRODUCT: No

HAZARD SYMBOLS: Materials causing other toxic effects.

-**CLASS & DIVISION:** Class D, Div. 2, Subdiv. B

PRODUCT IDENTIFICATION NO: 2811

DOMESTIC SUBSTANCE LIST: Listed

CEPA PRIORITY LIST: Not Listed

CARCINOGENICITY

-**ACGIH APPENDIX A:** Not Listed

-**A1 – CONFIRMED HUMAN:** Not Applicable

-**A1 – SUSPECTED HUMAN:** Not Applicable

IARC GROUP 1 OR 2: No

18. 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 and persists, obtain medical attention.

STATE REGULATIONS: California Proposition 65 -Safe drinking water and toxics Enforcement Act of 1986. This act requires the Government of California to develop 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 30 PPM Arsenic, 1 PPM Cadmium, and 2 PPM Lead from the lists.

19. OTHER INFORMATION

PRODUCT USES: Industrial and Household Cleaners, Water Conditioner, Photo Developer, Bath Ingredient, Paint Remover, Denture Cleaners, Emulsifier, and PH Control agent for foods. May be used to treat drinking water up to 41.5 MG/L.

NFPA 704

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

SPECIAL HAZARD

(DEGREE OF HAZARD)

NO HAZARD= 0

SEVERE HAZARD= 4

THE CONTENTS AND FORMAT OF THIS MSDS ARE IN ACCORDANCE WITH OSHA HAZARD COMMUNICATION AND CANADA'S WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS)

THE INFORMATION PRESENTED HEREIN, WHILE NOT GUARANTEED, WAS PREPARED BY TECHNICALLY KNOWLEDGEABLE PERSONNEL AND TO THE BEST OF OUR KNOWLEDGE IS TRUE AND ACCURATE. IT IS NOT INTENDED TO BE ALL-INCLUSIVE, AND THE

MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER OR ADDITIONAL CONSIDERATIONS. CONSULT **THE NOBLE COMPANY** FOR FURTHER INFORMATION.