

Material Safety Data Sheet

#0261 (10273)
#0265 (10274)
MSDS #0009 Revision 1

NFPA Rating: 1-0-0
HMIS Rating: 1-0-0-A

SECTION I

EMERGENCY TELEPHONE NO.

TRADE NAME
(IF NONE, PUT CHEMICAL) TSP-90 Heavy Duty Cleaner

(918) 825-5744 (24 Hrs.)

CHEMICAL NAME
AND SYNONYMS Sodium Metasilicate, Pentahydrate

MANUFACTURER'S NAME
AND TELEPHONE NO. Red Devil, Incorporated (918) 825-5744

ADDRESS : 4175 Webb Street, Pryor, Oklahoma 74361

SECTION II - HAZARDOUS INGREDIENTS

%

TLV

PEL

UNITS

PRODUCT CONSISTS OF:

Alkali Silicate (6834-92-0)
(Sodium Metasilicate, Pentahydrate)

100

NE

NE

Acute Data: This material has not been tested for primary eye irritation potential, however on the basis of its high degree of alkalinity, it is regarded as corrosive to the eyes. When tested for skin corrosion/irritation potential according to OECD Guidelines Section 404, it produced dermal corrosion. Acute oral toxicity has not been tested, according to supplier MSDS (PQ Corp)

No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.

VOC: 0%/wt. CARB Compliance: YES. Prop 65 Ingredients: NONE

SECTION III - PHYSICAL DATA

BOILING POINT (°F) NA

SPECIFIC GRAVITY (H₂O=1) >1

MELTING POINT 162 F (72.2 C)

PERCENT VOLATILES
BY VOLUME (%) NA

BULK DENSITY Approx. 59#/Cubic Foot (tamped)

pH 12.4 to 12.6 (1% Solution)

SOLUBILITY IN WATER Soluble

EVAPORATION RATE NA

APPEARANCE AND ODOR White granular or powdered solid: odorless or slightly musty odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) None

FLAMMABLE LIMITS Noncombustible

LEL NA

UEL NA

EXTINGUISHING MEDIA This material is compatible with all extinguishing media.

SPECIAL FIRE
FIGHTING PROCEDURES When this material is present in the area of a fire; goggles, body-covering protective clothing, chemical resistant gloves & rubber boots are recommended.

UNUSUAL FIRE AND
EXPLOSION HAZARDS None known

NA - Not Applicable

NE - Not Established

UN - Unavailable

SECTION V - HEALTH HAZARD INFORMATION

SYMPTOM/EFFECTS OR OVEREXPOSURE

Corrosive to eyes, skin & digestive tract. Dust corrosive to respiratory tract. Causes skin irritation. High pH is harmful to aquatic life. Causes eye & skin burns. Causes burns to mouth, esophagus & stomach. No known chronic hazards.

FIRST AID

EYES

Immediately flush eyes with plenty of water for @ least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

SKIN

Immediately flush skin with plenty of water for @ least 15 minutes, while removing contaminated clothing & shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

INHALATION

Move to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Get medical attention.

INGESTION

DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

STABILITY

This material is stable under conditions of normal use & storage.

INCOMPATIBLE MATERIALS

Generates heat when mixed with acid. May react with ammonium salt solutions, resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead & zinc. Carbon monoxide gas may be produced on contact with reducing sugars.

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen

SECTION VII - SPILL OR LEAK PROCEDURES

CLASSIFICATION

Unneutralized material is a RCRA Hazardous Waste because it exhibits the corrosive characteristic (pH greater than or equal to 12.5) as defined by EPA rules @ 40 CFR 261.22 (a)(1).

WASTE DISPOSAL METHOD

Neutralize & landfill solids in accordance w/ federal, state & local regulations. Flush neutral liquid to sewer in accordance w/ federal, state & local regulations & permits.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY

For symptoms of overexposure, wear a NIOSH-approved respirator for dusts & mists.

EYEWEAR If potential for eye contact exists, wear chemical goggles.

CLOTHING/GLOVES

Wear chemical-resistant gloves and clothing as needed to prevent prolonged skin contact.

VENTILATION

Local exhaust may be necessary under some handling/use conditions. Specific needs should be addressed by supervisory or health/safety personnel.

SECTION IX - SPECIAL PRECAUTIONS/INFORMATION

Store in closed container in dry area. If dissolving, add this product slowly to water with constant stirring. Product does not contain carcinogens as defined by IARC, NTP or OSHA. CORROSIVE. MATERIAL IS A REGULATED HAZARDOUS MATERIAL. UN PROPER SHIPPING NAME: Disodium trioxosilicate. UN HAZARD CLASS: 8. UN ID # UN3253. UN PACKING GROUP: III. SARA TITLE III: Not an extremely hazardous substance under 302. Not a toxic chemical under 313. FDA: Use of sodium metasilicate authorized by FDA as boiler water additive for production of steam that will contact food pursuant to 21 CFR 173.310 & as GRAS substance pursuant to 21 CFR 184.1769a for use as corrosion preventative in canned & bottled water.

Reviewed By: Larry G. Brandon

NAME

VP Technology & General Manager

TITLE

January 31, 2006

DATE

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or for the consequences of its use or misuse.

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