

Material Safety Data Sheet

0261 (10273), 0265 (10274)
TSP-90 Heavy Duty Cleaner

MSDS No. 0009 Rev. 2

Emergency Phone No.
 (918)825-5744

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

PRODUCT NAME	TSP-90 Heavy Duty Cleaner – White Granular Powder		
MANUFACTURER'S NAME & TELEPHONE NUMBER	Red Devil, Inc.	(918)825-5744	
STREET ADDRESS	4175 Webb Street		
CITY / STATE / ZIP	Pryor, Oklahoma 74361		

SECTION 2 – COMPOSITION / HAZARDOUS INGREDIENTS

%	TLV	PEL	UNITS
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PRODUCT CONSISTS OF:				
Sodium Metasilicate, Pentahydrate (6834-92-0)	100	NE	NE	
Non-hazardous ingredients*	0	NE	NE	
*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). Calculated VOC: 0%/wt, 0 g/L. CARB Compliance: Yes. Prop 65 Ingredients: None.				

SECTION 3 – HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF ENTRY	<input checked="" type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion
EMERGENCY OVERVIEW	White, odorless, granular powder. Corrosive to eyes, skin & digestive tract. Dust corrosive to respiratory tract. Due to high pH of product, release into surface water is harmful to aquatic life. Noncombustible. Reacts w/ acids & some organics.
EFFECTS OF OVEREXPOSURE	<u>Eye Contact</u> : Corrosive, causes eye burns. <u>Skin Contact</u> : Corrosive, causes skin burns. <u>Inhalation</u> : Dust corrosive to respiratory tract. <u>Ingestion</u> : Corrosive, causes burns to mouth, esophagus & stomach. <u>Chronic Hazards</u> : None known. Not listed by NTP, IARC or OSHA as a carcinogen. <u>Physical Hazards</u> : Can etch glass if not promptly removed.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	None known.

SECTION 4 – FIRST AID MEASURES

SKIN CONTACT	Immediately flush skin w/ plenty of water for @ least 15 minutes, while removing contaminated clothing & shoes. Seek medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.
EYE CONTACT	Immediately flush eyes w/ plenty of water for @ least 15 minutes. If easy to do, remove contact lenses, if worn. Seek medical attention immediately.
INHALATION	Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Seek medical attention.
INGESTION	DO NOT INDUCE VOMITING. Seek medical attention immediately. If person is fully conscious, give cupful of water. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES			
FLAMMABLE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
EXTINGUISHING MEDIA	Material compatible w/ all extinguishing media.		
FLASHPOINT (°F) & METHOD	Material noncombustible.	UPPER EXPLOSIVE LIMIT (% BY VOLUME)	NA
LOWER EXPLOSIVE LIMIT (% BY VOLUME)	NA	AUTOIGNITION TEMPERATURE (°F)	NA
UNUSUAL FIRE & EXPLOSION HAZARDS	See Section 3 for information on hazards when material is present in area of a fire.		
SPECIAL FIREFIGHTING PROCEDURES	When material present in the area of a fire: chemical goggles, body-covering protective clothing, chemical resistant gloves & rubber boots.		
SECTION 6 – ACCIDENTAL RELEASE MEASURES			
PROCEDURES	NIOSH-approved respirator where dust occurs. Carefully shovel or sweep up spilled material & place in suitable container. Avoid generating dust. There is no CERCLA Reportable Quantity for this material. If spill goes off site, notification of State & Local authorities is recommended.		
SECTION 7 – HANDLING & STORAGE			
HANDLING PROCEDURES & EQUIPMENT	Do not get in eyes, on skin or on clothing. Do not breathe dust. Keep container closed. Promptly clean up spills. Wash thoroughly after handling.		
STORAGE REQUIREMENTS	Store @ temperatures below 150F. Keep containers closed. Store in clean, tightly closed steel, fiber or plastic containers. Separate from acids, reactive metals & ammonium salts. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers. Product can absorb water from the air. In high humidity or storage for extended periods, use plastic bags to enclose product containers to avoid caking.		
SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION			
RESPIRATORY	Use a NIOSH-approved dust respirator where dust occurs.		
EYEWEAR	Wear chemical goggles.		
CLOTHING / GLOVES	Wear body-covering protective clothing & gloves.		
HYGENIC PRACTICES	Take appropriate measures to prevent all contact. Wash thoroughly before breaks & after workday.		
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES			
PHYSICAL STATE	Granular powder	ODOR & APPEARANCE	Odorless or musty odor. White powder.
SPECIFIC GRAVITY	NE	VAPOR DENSITY (AIR=1)	NE
EVAPORATION RATE	NE	BOILING RANGE (°F)	NE
pH	Approximately 14	SOLUBILITY IN WATER	Soluble.
VAPOR PRESSURE (MM Hg)	NE	%/WT VOLATILE (TNV)	NE
SECTION 10 – STABILITY AND REACTIVITY			
STABILITY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Material stable under conditions of normal use & storage.		
INCOMPATABILITY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Generates heat when mixed w/ acid. May react w/ ammonium salt solutions resulting in ammonia gas. Flammable hydrogen gas may be produced on contact w/ aluminum, tin, lead & zinc. Carbon monoxide gas may result on contact w/ reducing sugars.		
CONDITIONS TO AVOID	None.		
HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS	Hazardous decomposition products: Hydrogen.		

SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY			
ACGIH	NE		
OSHA	Not listed as a carcinogen. Toxicity has not been tested.		
IARC	Not listed as a carcinogen. Toxicity has not been tested.		
NTP	Not listed as a carcinogen. Toxicity has not been tested.		
DATA WITH POSSIBLE RELEVANCE TO HUMANS	Sodium Metasilicate, Pentahydrate is corrosive to eyes, skin & respiratory tract.		
SECTION 12 – ECOLOGICAL INFORMATION			
AQUATIC TOXICITY	Due to high pH, release into surface water is harmful to aquatic life. Material sinks & dissolves in water.		
SECTION 13 – DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL EPA WASTE CODE IF DISCARDED (40CFR Sec.261)	Dispose in accordance w/ Local, State & Federal Regulations. Disposed dry/solid material is not classified as a RCRA Hazardous Waste. However, disposed water/wet solutions containing this material are classified as a RCRA Hazardous Waste, if they exhibit the corrosive characteristic (pH greater than or equal to 12.5) as defined by EPA.		
SECTION 14 – TRANSPORT INFORMATION			
SPECIAL SHIPPING INFORMATION	DOT UN Status: A regulated hazardous material. UN Proper Shipping Name: Disodium Trioxosilicate, Pentahydrate. UN Hazard Class/Division: 8. UN Identification No.: UN3253. UN Packing Group: PG III.		
SECTION 15 – REGULATORY INFORMATION			
CERCLA – SARA HAZARD CATEGORY	No CERCLA Reportable Quantity has been established for this material. SARA Title III: Not an extremely hazardous substance under 302.	U.S. STATE REGS	See Section 16.
SARA 313	Not a toxic chemical under 313. Hazard categories under 311/312: Acute.	TSCA	All ingredients of this material listed on TSCA Inventory.
SECTION 16 – OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND			
<p>FDA: The use of sodium metasilicate is authorized by FDA as a boiler water additive for the production of steam that will contact food pursuant to 21 CFR 173.310; & as a GRAS substance pursuant to 21 CFR 184.1769a for use in washing & lye peeling of fruits, vegetables & nuts; as a denuding agent for tripe; a hog scald agent in removing hair; & as a corrosion preventative in canned & bottled water.</p> <p>WARNING: This product contains Sodium Metasilicate, Pentahydrate. Material is corrosive to eyes, skin & respiratory tract.</p> <p>LEGEND: NA – Not Applicable, NE – Not Established, UN – Unavailable, VOC – Volatile Organic Compound, PEL – Permissible Exposure Limit, TLV – Threshold Limit Value, STEL – Short Term Exposure Limit, MSDS – Material Safety Data Sheet, ACGIH – American Conference of Governmental Industrial Hygienists, SARA – Superfund Amendments & Reauthorization Act of 1986, OSHA – Occupational Safety & Health Administration, HMIS – Hazardous Materials Identification System, NTP – National Toxicology Program, CEIL – Ceiling Exposure Limit, CASRN (CAS Number) – Chemical Abstracts Service Registry Number, TSCA – Toxic Substances Control Act</p> <p>Reviewed By</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"> <p>Larry Brandon</p> <p>NAME</p> </div> <div style="text-align: center;"> <p>Vice President Technology & General Manager</p> <p>TITLE</p> </div> <div style="text-align: center;"> <p>March 16, 2009</p> <p>DATE</p> </div> </div> <p>The information contained herein has been developed based upon currently 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.</p>			