

MATERIAL SAFETY DATA SHEET

● Section 1 - PRODUCT IDENTIFICATION

Manufacturer's Name DEARBORN DIVISION, W. R. Grace & Company	Emergency Phone No 312/438-8241
Address 300 Genesee St., Lake Zurich, IL 60047	
Synonyms Cooling Water Treatment	Trade Name or Code Ident DEARBORN® 566

● Section 2 - HAZARDOUS INGREDIENTS

CAS NO.	%	EXPOSURE CRITERIA
Sodium dichromate dihydrate	7789-12-0	< 30 Animal suspect carcinogen
Potassium hydroxide (45%)	1310-58-3	< 35 Ceiling limit 2 mg/m ³

NFPA Code: 2-0-0

● Section 3 - PHYSICAL DATA

Boiling Point, 760mm Hg	> 212°F	Melting Point	NA
Specific Gravity(H ₂ O=1)	1.36	Vapor Pressure @ 25°C approx	15 mm Hg
Vapor Density (Air=1)	ND	Solubility in H ₂ O(% by Wt.)	appreciable
% Volatiles by Volume	ND	Evaporation Rate (Bu Ac=1)	< 1
Appearance & Odor: Yellow liquid with no specific odor	pH		12.1 ± 0.5

● Section 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point(and Method Used)	Flammable Limits in Air, % by Volume	Auto Ignition Temperature
None, water-based product	Lower: NA Upper: NA	NA

EXTINGUISHING

MEDIA Water Fog Foam CO₂ Dry Chemical Other

SPECIAL FIRE FIGHTING PROCEDURES

Fire fighters should wear full protective clothing including self-contained breathing apparatus

UNUSUAL FIRE AND EXPLOSION HAZARD

None

● Section 5 - REACTIVITY DATA

Stability(Normal Conditions)	CONDITIONS TO AVOID
<input checked="" type="radio"/> Stable <input type="radio"/> Unstable	

INCOMPATIBILITY(Materials to Avoid)

Acids, reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Not determined

HAZARDOUS POLYMERIZATION

CONDITIONS TO AVOID

May Occur Will Not Occur

MATERIAL SAFETY DATA SHEET (Continued)

●Section 6 - HEALTH HAZARD INFORMATION

EXPOSURE LIMIT

Not established

EFFECTS OF OVEREXPOSURE

INHALATION - Inhalation of chromate dusts or mists may cause irritation of the nasal septum and respiratory system. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum. Remove affected persons to fresh air. Use

INGESTION Toxic effects may not appear at once. Systemic poisoning of kidneys, liver and gastro-intestinal tract may occur. Drink large amount of water or milk if available. Induce vomiting by sticking finger down throat. Contact physician at once. Use respirator mask

SKIN OR EYE CONTACT - Contact with broken skin can cause chrome sores. Product may cause skin sensitization. Eye contact can cause severe irritation or damage. Wash skin with soap and water. Flush eyes at once with clear water and contact physician. Remove contaminated clothing and wash before reuse.

EMERGENCY AND FIRST AID PROCEDURES

Use first aid recommendations above, including good hygiene practices, then obtain medical attention immediately if exposure occurs.

●Section 7 - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS - Mechanical should be adequate for normal use.

RESPIRATORY PROTECTION (Specify Type) - Use adequate respirator for dusting or mist. 3M #8710 or equal has been suggested for similar use. For some exposure a NIOSH self-contained supplied air respirator may be employed.

EYE PROTECTION

Goggles or face shield

GLOVES (Specify Type)

Rubber or plastic

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type) - If large amounts of chromate products are handled, use covering for arms and legs, apron and boots. Change clothing daily.

●Section 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED - Collect spills with industrial absorbent and dispose using chemical scavenger service. Do not allow discharge directly to open waterways unless chromate removal treatment is employed.

WASTE DISPOSAL METHOD - Use sodium bisulfite, sodium sulfite or similar reducing chemical to reduce hexavalent to trivalent form. Neutralize with soda ash, caustic or lime (pH 7.5) to precipitate. Dispose in approved landfill according to local regulations. This product is an EPA Hazardous Waste D-007 (untreated)

●Section 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - Vent drums before removing bung to release pressure and prevent sprays. For industrial use only. Keep container closed when not in use.

OTHER PRECAUTIONS

Shipping Name: DOT Alkaline Corrosive Liquid, N.O.S. NA 1719
IATA

The data included herein are presented according to W. R. Grace & Co.'s practices current at the time of preparation hereof, are made available solely for the consideration, investigation and verification of the original recipients hereof and do not constitute a representation of warranty for which Grace assumes legal responsibility. It is the responsibility of a recipient of this data to remain currently informed on chemical hazard information, to design and update its own safety program and to comply with all national, federal, state, and local laws and regulations applicable to safety, occupational health, right to know and environmental protection.

Prepared by S. Morss

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