

MATERIAL SAFETY DATA SHEET



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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: POWER BLAST 2
GENERAL USE: Heavy Duty Degreaser
PRODUCT CODE: 508
PRODUCT FORMULATION NAME: NA
CHEMICAL FAMILY: Detergents
GENERIC NAME: NA

24 HR. EMERGENCY TELEPHONE NUMBERS:
CHEMTREC: (800) 424-9300 Outside US: (703)-527-3887
ROCKY MOUNTAIN POISON CONTROL CENTER: (303) 739-1146

We believe this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO.	OSHA PEL	ACGIH TLV	ORAL LD 50 RAT	PER-CENT
Sodium Hydroxide *	1310-73-2	2 mg/m3 8hr. TWA	2 mg/m3 Ceiling	140 mg/kg	5-10%
Sodium Metasilicate	6834-92-0	NE	NE	800 mg/kg	1-5%
Tetrasodium ethylenediamine tetraacetic acid	64-02-8	NE	NE	630 mg/kg	1-5%
Phosphate Ester	68921-24-4	NE	NE	5100/mg/kg	1-5%

* Subject to reporting requirements of Section 313 of Title III of SARA and 40 CFR 372

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Red Liquid

IMMEDIATE CONCERNS: CAUTION: May cause eye or skin burns.

POTENTIAL SIDE EFFECTS

EYES: Mist could cause eye damage if not treated immediately.

SKIN: May be irritant if not rinsed off.

INGESTION: May be an irritant to mouth and throat.

INHALATION: Avoid mist, may be an irritant.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation or burns.

SKIN: Mist can cause skin irritation or burns.

INGESTION: Can cause irritation to the stomach.

INHALATION: Avoid mist, can be an irritant.

ACUTE TOXICITY: Irritation may be caused with exposure to mist.

CARCINOGENICITY: Not listed by OSHA, or NTP or IARC ACGIH: None

MUTAGENICITY: No

REPRODUCTIVE TOXIN

REPRODUCTIVE EFFECTS: No

TERATOGENIC EFFECTS: No

TARGET ORGAN STATEMENT: No

SENSITIZATION: No

4. FIRST AID MEASURES

EYES: Allow streaming water to flow over the face while blinking both eyes for 15 minutes for optimum irrigation. Get medical attention.

SKIN: Wash off immediately, while removing contaminated clothing and shoes. Seek medical attention. Discard any clothing/shoes that cannot be cleaned. (CONTINUED ON PAGE 2)

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=====FIRST AID CONTINUED=====

INGESTION: Do NOT induce vomiting. Give water or milk of Magnesia. Seek immediate medical attention. If vomiting occurs, keep airway passages open.

INHALATION: Get into fresh air immediately, if breathing is difficult give oxygen and contact a physician immediately. Give mouth-to-mouth if respirations stop.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None

FLAMMABLE LIMITS: NA

AUTOIGNITION TEMPERATURE: NA

FLAMMABLE CLASS: NA

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: NA

GENERAL HAZARD: NA

EXTINGUISHING MEDIA: Water, Carbon Dioxide, Foam, Dry Chemical.

HAZARDOUS COMBUSTION PRODUCTS: NA

FIRE FIGHTING PROCEDURES: Nothing specific.

FIRE FIGHTING EQUIPMENT: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

SENSITIVE TO STATIC DISCHARGE: No

SENSITIVITY TO IMPACT: No

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Shut off leak if it can be done without injury. Contain spill as much as possible and place in recovery container. Neutralize remaining spill with baking soda, flush with water.

LARGE SPILL: Shut off leak if it can be done without injury. Contain spill as much as possible and Place in recovery container. Neutralize remaining spill with baking soda, flush with water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Use appropriate containment to avoid runoff.

LAND SPILL: Use appropriate containment to avoid runoff.

GENERAL PROCEDURES: NA

RELEASE NOTES: If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the US, contact the US Coast Guard National Response Center toll free at 800-424-8802.

IN CASE OF ACCIDENT OR ROAD SPILL: Contact CHEMTREC at (800) 424-9300

Outside US call: (703) 527-3887

See Section 13 for disposal information and Section 15 for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

7. HANDLING AND STORAGE

HANDLING: Handle in a well ventilated area. Handle and use in a manner consistent with good industrial and/or manufacturing techniques and practices.

STORAGE: Store in a cool dry area. Keep container closed when not in use. Freeze/thaw stable however container may crack when frozen.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (PPE)

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200) See Section 2, Page 1.

ENGINEERING CONTROLS: Provide adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYES AND FACE: Goggles, Safety Glasses.

SKIN: When handling wear alkaline resistant gloves.

RESPIRATORY: General ventilation.

WORK HYGIENIC PRACTICES: Facilities storing or using this material should be equipped with an eyewash facility and a safety shower. Good personal hygiene practices should always be followed.

REMARKS: This product contains hazardous ingredients per OSHA 29 CFR 1910.1200. No PEL's TLV's or OEL's for this product or it's ingredients are listed in the current issue of ACGIH's Guide to Occupational Exposure values nor have they been determined by the manufacturer.

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid	ODOR:	No odor
APPEARANCE:	Colored liquid	COLOR:	Red
pH 5% solution:	12.4	VAPOR PRESSURE:	23 @ 70° F.
DENSITY:	NA	BOILING POINT:	212° F.
FREEZING POINT:	32° F.	MELTING POINT:	10° F.
VAPOR DENSITY:	(Air=1) 1.2	SOLUBILITY IN WATER:	Soluble
VISCOSITY:	NA	SPECIFIC GRAVITY:	1.15
MOLECULAR WEIGHT:	NA	MOLECULAR FORMULA:	NA
		COEFF. OIL/WATER:	NA

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: NA

STABILITY: This product is stable under normal ambient conditions of temperature and pressure.

POLYMERIZATION: Will NOT occur

HAZARDOUS DECOMPOSITION PRODUCTS: NA

INCOMPATIBLE MATERIALS: Galvanized metals, acids, zinc and aluminum.

11. TOXICOLOGICAL INFORMATION

ACUTE: Severe irritation to eyes, skin, mucous membranes of the respiratory tract, throat, mouth, esophagus and stomach if not treated immediately.

DERMAL LD₅₀: ND

ORAL LD₅₀: ND

INHALATION LC₅₀: ND

EYE EFFECTS: Irritation, inflammation, burning may occur when using undiluted.

SKIN EFFECTS: Irritation, burning may occur when using undiluted.

SENSITIZATION: NA

TARGET ORGANS: NA

CARCINOGENICITY: Not listed by OSHA, NTP or IARC.

MUTAGENICITY: No

REPRODUCTIVE EFFECTS: No

TERATOGENIC EFFECTS: No

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available.

ECOTOXICOLOGICAL INFORMATION: NA

DISTRIBUTION: NA

CHEMICAL FATE INFORMATION: ND

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Shut off leak if this can be done without injury. Then dispose of in a manner in accordance with all Federal, State and Local pollution control laws and regulations.

FOR LARGE SPILLS: Shut off leak if this can be done without injury. Then dispose of in a manner in accordance with all Federal, State and Local pollution control laws and regulations.

PRODUCT DISPOSAL: May be a hazardous waste. Dispose of in a manner in accordance with applicable regulations.

EMPTY CONTAINER: Dispose of in a manner in accordance with applicable regulations.

14. TRANSPORTATION INFORMATION

UNITED STATES AND CANADIAN PROPER SHIPPING NAME: Caustic, alkali liquids, n.o.s., (Contains Sodium Hydroxide solution, Sodium Metasilicate) Class 8, UN1719 PG II

HAZARDOUS LABEL: Corrosive

PRODUCT NAME: Power Blast 2-508 by Hydrus Detergents

FREIGHT CLASS: 85

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=====**SECTION 14 TRANSPORTATION (CONTINUED)**=====

AIR (ICAO/IATA): Not legal.

EUROPEAN TRANSPORTATION:

PROPER SHIPPING NAME: ND

PROPER SHIPPING NAME: ND

LABEL: ND

LABEL: ND

INTERNATIONAL:

PROPER SHIPPING NAME: ND LABEL: ND

15. REGULATORY INFORMATION

UNITED STATES:

SARA TITLE III (SUPERFUND AMENDMENTS & REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: No REACTIVITY: Yes ACUTE: Yes CHRONIC: Yes

313 REPORTABLE INGREDIENTS: Sodium Hydroxide

TITLE III NOTES:

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION AND LIABILITY ACT)

CERCLA RQ: 1,000 lbs. Sodium Hydroxide.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: Registered

NATIONAL RESPONSE CENTER: U.S. COAST GUARD NATIONAL CENTER PHONE: 800-424-8802.

CANADA

WMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM) This product is WHMIS controlled.

CANADA INGREDIENT DISCLOSURE LIST: Yes

CANADIAN ENVIRONMENTAL PROTECTION ACT: ND

EUROPEAN COMMUNITY:

EUROPEAN COMMUNITY REGULATORY: ND

MEXICO:

STATE REGULATIONS: No

16. OTHER INFORMATION

REASON FOR ISSUE: New 16 Section MSDS

APPROVED BY: Dean Fernholz

TITLE: Manager/Chemist

PREPARED BY: Dean Fernholz

INFORMATION CONTACT: Hydrus Detergents 712.859.3999

REVISION SUMMARY: Revision 4 of 4. Replaces January, 2007.

HMIS, NFPA, & KEY LEGEND SEE PAGE 5 OF 5.

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HMIS RATING		NFPA RATING	
HEALTH	3	HEALTH:	2
FLAMMABILITY:	0	FLAMMABILITY:	0
PHYSICAL HAZARD:	2	INSTABILITY:	0
PERSONAL PROTECTION:	C	SPECIAL HAZARDS:	ALK, COR
KEY		KEY	
SEVERE:	4	OXIDIZER =	OXY
SERIOUS:	3	RADIATION HAZARDS =	
MODERATE:	2	USE NO WATER =	
SLIGHT	1	ALKALI =	ALK
MINIMAL	0	CORROSIVE =	COR
		ACID =	ACID
		POLYMERIZES =	P

Key Legend:

TLV =	Threshold Limit Value	TWA =	Time Weighted Average
PEL =	Permissible Exposure Limit	NTP =	Nation Toxicology Program
OSHA =	Occupational Safety and Health Administration	IARC =	International Agency for Research on Cancer
ACGIH =	American Conference of Governmental Industrial Hygienists	NE =	None Established
NPCA =	National Paints & Coatings Association	ND =	None Determined
HMIS =	Hazardous Materials Identification System	NA =	None Available
NFPA =	National Fire Protection Agency	COEFF =	Coefficients

We believe this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act. We believe the information contained on this Material Safety Data Sheet is current and offered in good faith. The information is provided for your guidance only. Hydrus Detergents makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. It is the user's obligation to determine the suitability of this product for a specific purpose and the conditions for safe use of the product. We reserve the right to revise this Material Safety Data Sheet as newer information becomes available. Hydrus Detergents makes no warranty of any kind.