

## Material Safety Data Sheet

According to 91/155/EEC and OSHA Hazard Communication Std. 29CFR1910.1200

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Commercial Product Name: POWR-CLEAN HD

Company: Power Coolant & Chemical, LLC  
15619 Frohock Place  
Charlotte, NC 28277  
Phone: 1-704-759-3435  
Fax: 1-704-759-1989

Emergency Telephone Number: 1-313-933-1500

### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

	Ingredient	CAS #	% weight	Exposure Limits
1.)	2-Hydroxyethylamine	141-43-5	5-10	7.5 mg/m3
2.)	Triethanolamine	102-71-6	11-5	5.0 mg/m3
3.)	Boric Acid	10043-35-3	1-5	NE
4.)	Dibasic Acid Mixture	72162-23-3	< 5	NE
5.)	Edetic acid	60-00-4	< 5	NE
6.)	Alkylether hydroysultaine	108797-84-8	< 5	NE
7.)	Water	7732-18-5	> 55	NE
8.)				

### 3. HAZARDS IDENTIFICATION:

Emergency Overview: Clear light amber liquid, slight amine odor. Concentrate can cause eye and skin damage.

Inhalation: Not expected to be a relevant route of exposure. However, high vapor or aerosol mist concentrations may be irritating to the nose, throat, and upper respiratory tract.

Skin: Prolonged contact may cause irritation and/or defatting

Ingestion: Will causes severe gastric distress, and possible mucosal damage. May cause nausea and vomiting.

Eye Contact: Concentrate may cause irritation and cornea damage. Dilute (ready to use) material is an irritant.

**4. FIRST AID MEASURES:**

- Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.
- Skin Contact: Flush skin with plenty of water for at least 15 minutes. If irritation persists, get medical attention.
- Inhalation: Remove individual to fresh air. Usually no further problem expected.
- Ingestion: Wash mouth thoroughly with water. Give large quantities of milk or water to drink. Induce vomiting and repeat until clear. Seek medical attention. Never give anything by mouth to an unconscious person.

**5. MEASURES FOR FIRE FIGHTING:**

Flash Point (Typical)	Not Applicable
Autoignition Temperature	None
Upper Flammable Limit	None
Lower Flammable Limit	none
Products of Combustion	Mainly oxides of carbon and sulfur with small amounts of other unidentified organic compounds.
Extinguishing Media	Water Fog, Dry Chemical, Foam
Firefighting Procedures	No special procedures required.
Unusual Fire and Explosion	
Hazards	None.
Explosion Data	Material does not have explosive properties.

NFPA Rating: Health - 2, Flammability - 0, Reactivity - 0

**6. ACCIDENTAL RELEASE MEASURES:**

Flush spillage to sewer or treatment plant. Clean area well.( no free caustic present in the material). Follow all state, federal and local regulations.

**7. HANDLING AND STORAGE:**

Storage temperature (°C)	0-40
Storage Precautions	None.
Suitable materials/Coatings	All plastics, and most common metals
Unsuitable Materials	None.
Storage Procedures	Keep containers closed when not in use. Wash thoroughly after handling. Empty containers contain product residue that may exhibit hazards of product. No special storage procedures required.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

Ventilation Procedures	Use with adequate ventilation. Avoid breathing mists or spray formed during machining operations.
Hand Protection	Use nitrile or neoprene gloves.
Eye Protection	Use chemical safety glasses with side shields.
Respiratory Protection	Under normal conditions of use, respirator is not required.
Clothing	Industrial overalls would be suitable, but protection of forearms is recommended.

**9. TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance	Clear light amber liquid
Solubility	Completely dispersible in water.
Odor	Slight amine
Specific Gravity	1.05±0.05
pH neat	9.7±0.5
Boiling Point	>210F
Vapor Pressure	N/D
Vapor Density	N/D

**10. STABILITY AND REACTIVITY:**

Stability	Material is normally stable at moderately elevated temperatures and pressures.
Incompatibility	Strong oxidizing agents.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products:	Carbon monoxide and other oxides of carbon may be formed.

**11. TOXICOLOGICAL INFORMATION:**

Eyes: May cause eye damage.  
Skin: May cause chemical irritation with prolonged contact with skin

Respiratory: If material is misted or if exposure to vapors generated through heating occurs, irritation of mucous membranes and upper respiratory tract may occur. Under normal standards of industrial hygiene irritation should not occur.

Oral LD50: Not Determined  
Dermal LD50: Not Determined  
Chronic Toxicity: No data available to indicate product or components present at greater than 1% are chronic health hazards.  
Carcinogenicity: No data available to indicate product or components present at greater than 0.1% present a carcinogenic hazard.  
Mutagenicity: No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.  
Teratogenicity: No data available to indicate product or components present at greater than 0.1% may cause birth defects.

Occupational Exposure Limits: Under conditions which may generate mists observe the OSHA PEL of 5mg/m<sup>3</sup> and ACGIH STEL of 10mg/m<sup>3</sup>.  
Other: No other health hazard known.

**12. ECOLOGICAL INFORMATION:**

Do not allow access to natural waterways. Dispose of properly.

**13. DISPOSAL CONSIDERATIONS:**

Product: As chemical waste in accordance with federal, state, and local regulations.

Packaging, Empty: Uncleaned containers should be recycled or disposed of. Receiver of container should be informed about the possible hazards as described in this Material Safety Data Sheet.

**14. TRANSPORT INFORMATION:**

This product is not considered hazardous for transport by D.O.T.

Proper Shipping Name:

Compound, cleaning liquid, n.o.s.

**15. REGULATORY INFORMATION:**

S.A.R.A. Title III section 311 and 312

This product is classified as a minimal health hazard.

S.A.R.A. Title III section 313

The following chemicals are present at or above de minimis concentrations in the product: NONE

CERCLA section 103

The following chemical(s) are present in this product:

None.

TSCA Inventory Status

The components of this product are listed or are exempt from the Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**16. FURTHER DATA:**

None.

All data in this Safety Data Sheet is based on present state of our knowledge and experience. They are to characterize our product with regards to any possible safety requirements. We do, however, pass them on to you without any warranty or property assurances.