

MATERIAL SAFETY DATA SHEET
According to 91/155/EEC and OSHA Hazard Communication Standard 29 CFR 1910.1200

1. Material/ Production & Company:
POWR-MUL

MANUFACTURER:
Power Coolant & Chemical, LLC
Charlotte, NC 28277
Phone: 1-704-759-3435
Fax: 1-704-759-1989

Emergency Telephone Number: CHEMTREC ® 1-800 -424-9300
The emergency telephone number is to be used only in the event of a chemical emergency involving a spill, leak, fire, exposure, or accident.

2. Substance/Product Identification:

	Ingredient	CAS #	% weight
1.)	2-Butoxy Ethanol*	111-76-2	< 5.0
2.)	Mineral oil	8012-75-1	<80.0
3.)			
4.)			
5.)			
6.)			
7.)			
8.)			
9.)			

3. Composition Information:

Exposure Limits in the Substance/Product Identification section

* 2-Butoxy Ethanol 111-76-2 50 ppm
*_Mineral Oil 8012-75-1 5 mg/m3

4. Hazards Identification:

Principal Hazards
Risk Phrases Eye/Skin Irritant
Safety Phrases Eye/Skin Irritant

5. First Aid Measures:

Ingestion: DO NOT INDUCE VOMITTING. Milk or water to drink may be beneficial. Seek medical attention.

Eyes: Flush with water for at least 15 minutes. Seek medical attention if eye irritation develops or persists.

Skin: Wash with soap and water and apply skin reconditioning cream. Seek attention if irritation develops. Launder contaminated clothing.

Inhalation: Remove exposed person to fresh air if adverse effects are observed.

Additional information: Note to physician: Treat symptomatically.

6. Fire Fighting Measures

Flash Point (Typical)	>100C (PMCC)
Auto ignition Temperature	>150C (PMCC)
Upper Flammable Limit	Not Determined
Lower Flammable Limit	Not Determined
Products of Combustion	Mainly oxides of carbon and water with small amounts of other unidentified organic compounds.
Extinguishing Media	Carbon dioxide, dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures	The wearing of self-contained breathing apparatus is recommended. Water may cause splattering. Material will float on water.
Unusual Fire and Explosion Hazards	Large surface areas exposed to air/oxygen (e.g. oil soaked rags, paper, or absorbed spillages) may be easily ignited and should be cleared up at once. Toxic fumes, gasses, or vapors may evolve on combustion.
Explosion Data	Material does not have explosive properties.

NFPA Rating Fire 1 Health 1, Reactivity 0

7. Accidental Release Measures

Spill Procedures: Personal protective equipment must be worn. See Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers or water courses. Collect free liquid for recycle or disposal. Residual liquid can be absorbed in inert material and collected in a container for disposal.

8. Handling and Storage

Storage Temperature (°C)	0-40
Storage Precautions	No special requirements
Suitable Materials/Coatings	Most common metals
Unsuitable Materials	May soften some rubbers
Storage Procedures	Keep containers closed when not in use. Wash thoroughly after handling. Empty containers contain product residue which may exhibit hazards of product. No special storage procedures required.

9. Exposure Controls/Personal Protection

Exposure Limits (O.E.L.)	Long Term (8 hour TWA) - 5mg/m ³ Short Term (10 minute TWA) - 10m ³
Ventilation Procedures	Use with adequate ventilation. Avoid breathing any mist or spray formed during machining operations.
Hand Protection	Use nitrile or neoprene gloves.
Eye Protection	Use chemical safety glasses.
Respiratory Protection	Under normal conditions of use, respirator is not normally required.
Clothing	Industrial overall would be suitable, but protection of forearms is recommended.

10. Typical Physical and Chemical Properties

Appearance	Light brown low viscosity fluid
Odor	Mild amine
Specific Gravity @ 15.5C	0.98-1.10
pH Product	N/A
Acid Value (Apparent)	NA
Volatile Organic Content	100%
Oil Content	73.5%
Water Content	0%
Freezing/Melting Point	<0C

11. Stability and Reactivity

Stability	Material is normally stable at moderately elevated temperatures and pressures.
Incompatibility	Strong oxidizing agents.
Polymerization	Will not occur.
Decomposition Temperature	>100C

12. Toxicological Information

Eyes	Can irritate eyes.
Skin	Can irritate skin. Prolonged or repeated contact may cause dermatitis.
Respiratory	If material is misted or if exposure to vapors generated through heating occurs, irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil may occur. Under normal standards of industrial hygiene irritation should not occur.
Dermal Toxicity LD ₅₀ Rabbits	No data available
Oral Toxicity LD ₅₀ Rats	No data available
Chronic Toxicity	No data available to indicate product or components present at greater than 1.0% are chronic health hazards.
Carcinogenicity	No data available to indicate product or components present at greater than 0.1% present a carcinogenic hazard.
Mutanogenicity	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 PEL of Other	Under conditions which may generate mists observe the OSHA 5mg ³ m and ACG1H STEL of 10mg ³ m. No other health hazards known.

13. Ecological Information

WGK Classification Preliminary WGK (self classification) = 1-2

14. Disposal Considerations

Waste Disposal Material, if discarded is not expected to be a characteristic waste. Disposal should be in accordance with local regulations.

15. Transport Information

UN Number	Not applicable	UN Classification	Not classified
IMDG	Not classified	ICAO/IATA Class	Not classified
Packaging Group	Not classified		
UK 'PG' Regulations	This product is not classified as being hazardous for transportation.		

16. Regulatory Information

Hazard Label Data	R36/38 - Irritating to eyes and skin. S24/25 - Avoid contact with eyes/skin. S2 - Keep out of reach of children. (Note: This classification refers to the concentrate as supplied and does not apply when diluted for use within the recommended dilutions.
EC Directives	Framework Waste Directive - 91/156/EEC. Waste Oil Directive - 87/101/EEC.
Act	The Health and Safety at Work Act 1974. Consumer Protection 1987. Environmental Protection Act 1990.
(COSHH)	Control of Hazardous Substances to Health Regulations 1988. Chemicals (Hazard Information and Packaging) Regulations.

SARA Title III section 311 and 312 This product is not classified as a hazardous chemical.

SARA Title III section 313 The following chemicals are present at or above the de minimum concentrations in the product.

2-Butoxy Ethanol 111-76-2 2.5%

All ingredients of this product are listed on the TSCA inventory.

17. Other Information

The data and advice given apply when the product is sold for the stated applications only. Use of the product for other applications not stated may give rise to risks not mentioned in this document. It is not recommended for other applications without seeking advice.

If the product is for supply from a third party for use at work, it is your duty to take all necessary steps to ensure any person handling or using it is provided with the information in this document.

If you are an employer it is your duty to familiarize your employees and others who may come into contact with the product with the hazards described and any precautions which may be necessary in use.