

MATERIAL SAFETY DATA SHEET

1823 WB RETARDER

==== **SECTION I**

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==== **SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY**

HAZARDOUS COMPONENTS	CAS #	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mm Hg@ Temp	WEIGHT %
		OSHA-PEL	ACGIH-TLV	MFR-TLV		
Dipropylene Glycol	025265-718				N/A	100

+++NO TOXIC CHEMICALS (S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372 ARE PRESENT +++

=== **SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS**

Boiling Point: 450 Deg F
Specific Gravity (H2O=1): 1.0
Evaporation Rate: SLOWER THAN ETHER
Vapor Density (Air = 1): LIGHTER THAN AIR
Solubility in Water : SOLUBLE.
Appearance & Odor: CLEAR LIQUID, PRACTICALLY NO ODOR.

=== **SECTION 4 – FIRE & EXPLOSION HAZARD DATA**

Flash Point: 280 Deg F **Method Used:** TOC
Flammable Limits in Air **% by Volume- LEL-** 1.3% **UEL-** 8.5%
Extinguisher Media: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG.

Special Fire WEAR SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE
Fighting Procedures: CLOTHING TO PROTECT AGAINST HAZARDOUS EFFECTS OF NORMAL
COMBUSTION & OXYGEN DEFICIENCY.

Unusual Fire & Explosion Hazards: NO AVAILABLE INFORMATION

HMIS RATING

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

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===== **SECTION 5 – PHYSICAL HAZARDS (REACTIVITY DATA)**

Stability:

STABLE UNDER NORMAL STORAGE CONDITIONS

Incompatibility (Materials to Avoid):

AVOID STRONG OXIDIZERS.

Hazardous Decomposition Products:

ALDEHYDES & ACIDS

Hazardous Polymerization:

WILL NOT OCCUR

===== **SECTION 6 – HEALTH HAZARD**

Acute/Chronic: BASED ON AVAILABLE DATA, REPEATED EXPOSURES ARE NOT ANTICIPATED TO CAUSE ANY SIGNIFICANT ADVERSE EFFECTS.

Signs & Symptoms of Exposure:	Inhalation:	VAPORS ARE UNLIKELY DUE TO PHYSICAL PROPERTIES.
	Ingestion:	THE ORAL LD50 FOR RATS IS 14.8 g/kg. NO HAZARDS ANTICIPATED FROM INGESTION INCIDENTAL TO INDUSTRIAL EXPOSURE. TOXICITY FOR SINGLE ORAL DOSE IS LOW.
	Skin Absorption:	A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. THE LD50 FOR SKIN ABSORPTION IN RABBITS IS >5 g/kg.
	Skin & Eye Contact:	ESSENTIALLY NON-IRRITATING TO EYES & SKIN.

Medical Conditions Generally

Aggravated by Exposure: NONE.

CARCINOGENICITY: NTP? NO. IARC MONOGRAPHS? NO. OSHA? NO.

Emergency & First Aid Procedures:

1. **Eye Contact:** IMMEDIATELY FLUSH EYES W/WATER FOR AT LEAST 15 MINUTES.
2. **Skin Contact:** WASH SKIN THOROUGHLY W/MILD SOAP & WATER.
3. **Inhalation:** IF THERE ARE ACUTE OR CHRONIC SYMPTOMS, MOVE PERSON TO FRESH AIR, GIVE ARTIFICIAL RESPIRATION IF NECESSARY, SEEK MEDICAL ATTENTION.
4. **Ingestion:** INDUCE VOMITING IF LARGE AMOUNTS ARE INGESTED; SEEK MEDICAL ATTENTION.

===== **SECTION 7 – SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES**

Precautions to be taken AVOID EXCESSIVE SKIN CONTACT & EYE EXPOSURE.

In Handling & Storage:

In case Material is Released or Spilled: ELIMINATE OPEN FLAMES & IGNITION IN THE VICINITY OF VAPORS STOP SOURCE OF LEAK. ABSORB LARGE SPILLS W/ABSORBENT CLAY OR OTHER SUITABLE MATERIALS.

Waste Disposal Methods: PLACE CONTAMINATED MATERIALS IN DISPOSABLE CONTAINERS INCINERATE OBSERVING LOCAL, STATE, & FEDERAL HEALTH, SAFETY & POLLUTION LAWS.

===== **SECTION 8 – SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory Protection: CONSULT SUPPLIER FOR AN APPROVED AIR-PURIFYING RESPIRATOR.

Ventilation: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

Protective Gloves: USE IMPERVIOUS GLOVES WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT OCCURS.

Eye Protection: USE SAFETY GOGGLES.

Other Protective Clothing or Equipment: SOLVENT RESISTANT APRONS, EYEWASH FOUNTAINS, SAFETY SHOWERS ARE RECOMMENDED.

Work/Hygienic Practices: LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

===== **SECTION 10 – DISCLAIMER**

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