



# MATERIAL SAFETY DATA SHEET

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## BVA Ester Glo 100

### SECTION I: Product Name and Information

Product Trade Name and Synonyms: BVA AUTO 100	<b>Emergency : CHEMTRAC : 1.800.424.9300</b>
Chemical Name: Polyolester	NFPA Codes : Health: 1 Fire: 1 Reactivity: 0
CAS#: Proprietary	HMIS Codes : Health: 1 Fire: 1 Reactivity: 0
Product Type: Multipurpose	Date prepared: 01/21/2009

### SECTION II: Composition Information on Ingredients

Chemical Name	PERCENTAGE (%)
Ester (Polyol Ester)	> 99.0
Florescent Dye	< 1

### SECTION III: Hazards Identification

Principal Hazards **CAUTION**

Eye: MAY CAUSE EYE IRRITATION.

Skin: MAY CAUSE SKIN IRRITATION.

### SECTION IV : First Aid Procedures

Eye: Flush eyes with water for 15 minutes. Get medical attention if eye irritation develops or persists.

Skin: Avoid contact. Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse..

Inhalation: If oil mist is inhaled, remove to fresh air and consult physician.

Ingestion: **DO NOT INDUCE VOMITING.** Drink small quantities of water. Consult physician at once. DO NOT give anything by mouth if person is unconscious or having convulsions.

### SECTION V : Fire Fighting Procedures

#### This product is: Combustible

Flash Point °C(°F)= COC	>150° (302°)		
Upper Flammable Limit	Not Determined	Lower Flammable Limit	Not Determined
Auto Ignition Temperature	Not Determined		
Unusual Hazards :	Toxic fumes, gases or vapors may evolve on burning.		
Extinguishing Agents :	Dry chemical, CO2 foam, water can be used to cool and protect exposed material.		

Explosion Data:	Material does not have explosive properties.
Special Firefighting Procedures:	Should use NIOSH/MNSA approved self-contained breathing apparatus. Use water carefully to avoid violent production of steam. DO NOT spray water directly on fire. May cause frothing or splashing of hot material. Material will float on water.

**SECTION VI : 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 and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under transportation and labeling (DOT/CERCLA) and other regulatory information section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

**SECTION VII : HANDLING AND STORAGE**

**Handling Procedures:** Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.

**Storage Procedures:** No special storage precautions required.

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

**SECTION VIII : EXPOSURE CONTROLS / PERSONAL PROTECTION**

Eye Protection	Chemical goggles or face shield.
Skin	Use nitrile or neoprene gloves. Long sleeve shirt is recommended.
Inhalation	Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spills.
Ventilation Procedure:	If use generates a mist or vapor, local exhaust ventilation is recommend
Respiratory Protection	Under normal conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure is exceeded. Use self contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spills.

**SECTION IX : Physical & Chemical Properties**

Appearance	Clear Liquid	Ph	Not Determined
Specific Gravity (H <sub>2</sub> O=1)	0.97 @ 15.6 °C	Flash Point (Typical) COC	>150°C 302°F
Viscosity cSt	100 @ 40 °C 11.4 @100°C	Boiling Point	Not determined
Solubility in Water	Insoluble	Odor	Mild

Vapor Pressure	Not determined	Odor Threshold	Unknown
Vapor Density (Air=1)	Not determined	% Volatile	Unknown
Molecular Weight	Not determined		

**SECTION X: Stability & Reactivity**

Stability:	Material is normally stable at moderately elevated temperatures and pressures.
Conditions to Avoid:	Excessive heat.
Incompatibility	Strong acids. Strong bases.
Thermal Decomposition	Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.
Polymerization	Will not occur.

**SECTION XI: Toxicological Information (Acute Exposure)**

Oral Toxicity:	The LD50 in rats is >5000 mg/Kg. Based on data from similar materials.
Eye Irritation:	May cause eye irritation. Based on data from similar materials.
Skin Irritation:	May cause skin irritation. Based on data from similar materials.
Dermal Toxicity:	The LD50 in rabbits is >2000 mg/Kg. Based on data from similar materials.
Inhalation Toxicity:	No data available to indicate product or components may be a toxic inhalation hazard.
Respiration Irritation:	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed of mineral oil. Based on data from similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.
Dermal Sensitization:	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization:	No data available to indicate product or components may be respiratory sensitizers.
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% may present a carcinogenic hazard.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity:	No data available to indicate product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity:	No data available to indicate product or components present at greater than 0.1% may cause birth defects.
Other:	No other health hazards are known
Exposure Limits	Contains synthetic basestock. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter. ACGIH STEL of 10 mg per cubic meter for mineral oil mists.

<b>SECTION XII: Ecological Information</b>	
Fresh Water Fish Toxicity:	The acute LC50 for freshwater fish is >1000 ppm.
Fresh Invertebrates Toxicity:	The acute EC50 for freshwater invertebrates is >1000 ppm.
Algae Toxicity	The acute EC50 for algae is >1000 ppm.
Saltwater Fish Toxicity	Not determined

<b>SECTION XII: Ecological Information (Cont)</b>	
Saltwater Invertebrates	Not determined
Bacteria Toxicity	The acute EC50 for bacteria is >1000 ppm.
Miscellaneous Toxicity	Not determined.
Environmental Fate:	Not determined. BIOCONCENTRATION: Not determined. SOIL MOBILITY: Not determined.

<b>SECTION XIII : Disposal Considerations</b>	
WASTE DISPOSAL: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Waste management should be in compliance with federal, state, and local laws.	

<b>SECTION XIV: Transportation Information</b>	
U.S. Dot Bulk Shipping Description:	Not applicable.
U.S. Dot Non-bulk Shipping Description:	Not applicable.
IMDG Shipping Description:	Not applicable.
ICAO Shipping Description:	Not applicable.
ADR/RID Hazard Class:	Not applicable.

<b>SECTION XV: Regulatory Information</b>	
U.S. Dept. Of Agriculture:	This product has not been filed with the USDA to support H2 approvals.
FDA Approval:	Not applicable.
<b>Other Regulations :</b>	<b>All components of this formulation are listed in the Domestic Substances List (DSL.. Canadian) and in the Toxic substance Control Act Inventory (TSCA - US).</b> The product is not known to contain any of the carcinogens required to be listed under OSHA hazard communication standard, 29 CFR 1910.1200 (U.S.). Please note that the chemical identity of some or all of the ingredients that may be listed herein is confidential business information and is being withheld as permitted by 29 CFR 1910.1200 and various State Right to Know Laws.
EEC EINECS:	All components are in compliance with the ED Seventh Amendment Directive 92/32/EEC.
Japan MITI:	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia:	All components are in compliance with chemical notification requirements in Australia.
Canada:	All components are in compliance with the Canadian Environmental Protection Act and

	are present on the Domestic Substances List.
Canadian Fuel Registr.:	Not applicable.
Switzerland:	All components are in compliance with the Environmentally Hazardous Substance Ordinance in Switzerland.
Korea:	All components are in compliance in Korea.
Korean Fuel Registr.:	Not applicable.
Philippines:	May require notification before sale under Philippines Republic Act 6969.

**SECTION XVI: OTHER INFORMATION**

Precautionary Labels:	CAUTION. -MAY CAUSE EYE IRRITATION -MAY CAUSE SKIN IRRITATION
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THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO USE, HANDLE, STORE, TRANSPORT OR ARE OTHERWISE EXPOSED TO THIS PRODUCT. WE BELIEVE THE INFORMATION IN THIS DOCUMENT TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKE NO GUARANTEE THAT IT IS.