

## SAFETY DATA SHEET (SDS) / TERRASEAL GLOSS 4320

### Section 1 Product / Company Identification

Product Name	TERRASEAL GLOSS 4320
Product Description	Organic
Product Number	4320
Manufacturer & Address	DYNA Metro Inc. 37 Creditstone Road Concord, Ontario L4K 1N3 Canada
Manufacturer's Phone Number	+1 905.761.3309
Manufacturer's Facsimile	+1 905.761.2114
Date Of Issue	November 23, 2018
Prepared By	Mark Gagro
Emergency Phone Numbers	Canutech 1-613-996-6666 (Canada) Chemtrec 1-800-424-9300 (U.S.)

### Section 2 Chemical Composition And Hazards Identification

Ingredient	CAS #	Percent	T.L.V.	Route/Species
Xylene	1330-20-7	30 - 80 %	100 ppm	LD50 > 4300 mg\kg oral rat LC50 > 6700 ppm\4hr LD50 > 2000 mg mg\kg dermal rabbit
Benzene	71-43-2	< 10 ppm	10 ppm TWA ACGIH 1993-94	LD50 > 5600mg\kg oral rat LC50 > 13700 ppm\4hr
Toluene	108-88-3	30 - 80 %	50 ppm ACGIH 1993-94	LD50 > 5500 - 7300 mg\kg oral rat LC50 > 8000 ppm\4hr rat LD50 > 14000 mg\kg dermal rabbit
Dimethyl Benzene	1330-20-7	0 - .80 %		LD50 > 4300 mg\kg oral rat LC50 > 6700 ppm\4hr rat LD50 > 2000 mg\kg dermal rabbit
Acrylic Polymer	Trade secret	20 - 35 %		Not available

Critical Hazards	Single overexposure, above recommended guidelines, may cause : central nervous system depression with signs and symptoms such as headache, dizziness, drowsiness, in-coordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Combustible liquid and vapour. Vapours may ignite explosively.
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## Section 3 Physical Data

Physical State	Liquid
Colour	Translucent clear and mobile liquid
Odour and Appearance	Hydrocarbon odour
Odour Threshold	> .2 - 2.0 ppm
Water Solubility	Immiscible
Specific Gravity	.908
Boiling Point	137 - 143 Degrees C
Freezing Point	< - 50 Degrees C
Melting Point	Not applicable
Percent Volatile	60 - 80 %
Vapour Density ( Air =1)	3.7 @ 20 Degrees C
Vapour Pressure ( mm Hg )	> 5 @ 20 Degress C
pH	Not applicable
Partition Coefficient ( K o/w )	Not applicable
Evaporation Rate	.72 n-butyl acetate=1
Viscosity	16.88 cSt

## Section 4 Fire And Explosion Data

Flammability	Yes	
Means of Extinction	Carbon dioxide, dry chemical, foam.	
Exposure Hazards During Fire	Vapours may travel long distances along the ground or floor to an ignition source and flash back.	
Fire Fighting	Firefighters should wear positive pressure, self-contained breathing apparatus. Equipment should be decontaminated after use. Vapours could form an explosive mixture in air. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.	
Flash Point	> 24 Degrees C ( T.C.C. )	
Upper Flammable Limit ( % by volume )	7.0	
Lower Flammable Limit ( % by volume )	1.1	
Explosion Data	Explosive Power	Not available
	Rate of Burning	Not available
Sensitivity To Static	Yes	
Discharge	Sensitivity to Impact	No
Auto Ignition Temperature	527 Degrees C	
Unusual Fire And Explosion Hazards	This product is considered a combustible liquid under WHMIS criteria and is a fire hazard. It supports combustion and decomposes under fire conditions. Do not pour, spill, use or store near heat, spark sources or open flames. Consider the possible formation of explosive methyl alcohol / air mixture for example in uncleaned containers by moisture.	
Hazardous Combustion Products	Carbon monoxide, carbon dioxide acrylic monomers and toxic gases	

## Section 5 Stability And Reactivity Data

Stability And Reactivity	Stable
Hazardous Polymerization	Will not occur
Conditions To Avoid	Heat and any ignition source, open flames.
Incompatibility	Strong oxidizing agents
Hazardous Decomposition	CO, CO <sub>2</sub> , acyclic monomers and traces of incompletely burned hydrocarbons upon combustion.
Reactivity	No

## Section 6 Toxicological Properties

Major Exposure Hazards	Skin contact, inhalation, eye contact, ingestion
Skin Contact	Moderate skin irritation ( after prolonged or repeated contact ). Signs and symptoms an include redness, swelling, itching and dryness.
Inhalation	<p>Single overexposure, above recommended guidelines, may cause, central nervous depression. Signs and symptoms can include headache, dizziness, drowsiness, in-coordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Irritation of the upper respiratory system could show signs and symptoms of the following : soreness of the nose and throat, coughing and sneezing.</p> <p>Inhalation of vapours may lead to the same symptoms as with ingestion. On prolonged exposure, this product may cause liver and kidney damage.</p>
Eye Contact	Mild eye irritation with signs and symptoms that include redness, swelling, pain and tearing.
Ingestion	Ingestion is not a likely route of exposure to this product. Ingestion may cause aspiration pneumonitis. Signs and symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Carcinogenicity	This product ( or components, if a mixture ) is not listed in IARC Monographs, the NTP Annual Report or regulated by OSHA as a carcinogen or potential carcinogen. Information is not available as to whether it is listed in the ACGIH TLV's as a carcinogen.
Mutagenicity	None
Reproductive Effects	Animal embryotic. Fetotoxic in animals.
Teratogenicity	Showed effects on fetus of lab animals.
Sensitization Information	Sensitivity reactions may occur from prolonged and repeated exposure. Prolonged and repeated overexposure to solvents can cause the following : irritation of the respiratory tract, enlarged liver, kidney effects, and cardiac sensitization.

## Section 7 Ecological Information

Ecotoxicity Data	Prevent run-off to sewers, streams or other bodies of water. Provincial, State, or Federal Regulations may require that environmental and / or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities. No food chain concentration potential. May be harmful to aquatic life.
Environmental	Fate Not available

## Section 8 Disposal Considerations

Product As Sold	No data available
Product Packaging	No data available
Special Instructions	Since regulations vary, consult appropriate and applicable regulations or authorities before disposal

## Section 9 Accidental Release Measures

Personal Precautions	Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.
Spill Response	Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Place in an approved metal container.
Methods of Disposal	Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material.

## Section 10 Handling And Storage

Storage Requirements	Keep container dry.
Incompatible Materials	Store away from acids or oxidizing agents . Store away from heat. Store out of direct sunlight.
Ventilation	Keep container in well ventilated area.
Fire Prevention	Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material. Avoid shock or friction.
Explosion Prevention	Keep away from heat, sparks, open flame, and other sources of ignition. Prevent all sources of ignition. Vapours may ignite explosively.
Static Prevention	Avoid static discharge.
Use Instructions	Keep container tightly closed.

## Section 11 Exposure Controls / Personal Protection

Personal Protection	Eye Protection	Avoid eye contact. Wear vented goggles.
	Hand Protection	Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended : Polyvinyl alcohol and polyethylene / ethylene vinyl alcohol. Avoid butyl rubber, nitrile rubber and neoprene rubbers.
	Skin	Protection Avoid skin contact.
	Respiratory Protection	Avoid breathing of vapours created during the cure cycle. Avoid breathing of vapours, mist or spray. Avoid breathing of airborne material. Select one of the NIOSH approved respirators based on airborne concentration of contaminants : half-mask organic vapour respirator with dust/mist and fume pre-filter ; full-face organic vapour respirator with dust/mist and fume pre-filter.
	Ingestion	Not applicable.
	Recommended Ventilation	Use with appropriate local exhaust ventilation. Use with functioning spray booth or local exhaust. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.
	Other Protection	An eyebath and safety shower should be available. All food should be kept in a separate area away from the storage / use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Wash hands and face thoroughly before eating and drinking or smoking to remove any residual material.

## Section 12 Exposure Controls / Personal Protection

Inhalation	Remove from exposure and provide fresh air. If breathing has stopped, administer artificial respiration or oxygen as necessary. Consult a physician immediately.
Eye Contact	Rinse the eyes with a gentle stream of water for at least 15 minutes. Consult a physician immediately.
Skin Contact	Remove contaminated clothing. Wash the skin with soap and water. Decontaminate or discard clothing. If irritation occurs, seek medical attention.
Ingestion	If swallowed, give several glasses of water and induce vomiting by placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

## Section 13 Transportation Information

Transportation Of Dangerous Goods	TDG classification	Regulated material	
	Proper Shipping Name	Resin Solution	
	Class / Division	3 ( 9.2 )	
	UN Number	UN 1307	
	Packaging	Group III	
International Dangerous Goods Classification	IMO Class	Packaging Group	III
		Class	3
		Resin solution	
		UN Number	1307
	ICAO	No data available	

## Section 14 Regulatory Information

Labelling Requirements	UN # ( PIN ) 1307	Resin solution
	Class	3 ( 9.2 ) Flammable liquid
	Packaging Group	III
HMIS Rating	Health	1
	Flammability	3
	Reactivity	0
	Personal Protection Z ( User supplied based on use conditions )	
NFPA	Health	2
	Flammability	3
	Reactivity	0
WHMIS Classification	D2B	Causes eye,skin and mucous membrane irritation.
	B2	Combustible liquid
	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations ( CPR ) and the MSDS contains all the information required by the CPR.	
IMO Description	Resin Solution	
	Class 3	
	UN Number 1307	
	Packaging Group III	

## Section 15 Preparation Information

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to the accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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