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Section 1 - Pr	oduct And Company Information		
Product	Triethylene Glycol Diemthyl Ether (TRIEDM)		
Product No	D022		
Company	Dynamic N.A. Inc		
Address	23 Captains Walk, Milford, CT 06460, U.S.A.		
Phone	1 914 965 2077		
Fax	1 914 375 2093		
Section 2 - Co	omposition/Information On Ingredients		
Synonyms	1,2-Bis(2-methoxyethoxy)ethane, Dimethyltriglycol, Triglyme		
CAS #	112-49-2		
Formula	C ₈ H ₁₈ O ₄		
Section 3 - Ha	azards Identification		
	YOVERVIEW		
	ds: Reproductive hazard		
OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION			
	losive peroxides.		
	ELEMENTS, including precautionary statements		
Signal word	Danger		
Hazard stater			
H360	May damage fertility or the unborn child.		
Precautionary			
P201 Obtain special instructions before use.			
P308 + P313 IF exposed or concerned: Get medical advice/attention.			
HMIS CLASSIFICATION			
Health Hazard: 0			
Chronic Health Hazard: *			
Flammability: 1			
Physical hazards: 1			
NFPA RATING			
Health Hazard	d: 0		
Fire: 1			
Reactivity Ha			
POTENTIAL HEALTH EFFECTS			
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.			
Skin: May be harmful if absorbed through skin. May cause skin irritation.			
Eyes: May cause eye irritation.			
Ingestion: Ma	y be harmful if swallowed.		
	rst Aid Measures		
GENERAL A			
Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.			
IF INHALED			
	, move person into fresh air. If not breathing give artificial respiration Consult a physician.		
	SKIN CONTACT		
Wash off with	Wash off with soap and plenty of water. Consult a physician		

Wash off with soap and plenty of water. Consult a physician.

IN CASE OF EYE CONTACT

Flush eyes with water as a precaution.

IF SWALLOWED

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

CONDITIONS FOR SAFE STORAGE

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Hygroscopic. Handle and store under inert gas.

Section 8 - Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

HAND PROTECTION

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. EYE PROTECTION

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN AND BODY PROTECTION

impervious clothing, The type of protective equipment must be selected according to the concentration and amount

of the dangerous substance at the specific workplace.

HYGIENE MEASURES

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical And Chemical Properties			
Appearance	Colorless clear liquid		
Molecular Weight:	178.23 g/mol		
рН	n/a		
Melting point	-45 °C (-49 °F) - lit.		
Boiling point	216 °C (421 °F) - lit.		
Flash point	113 °C (235 °F) - closed cup		
Ignition temperature	191 °C (376 °F)		
Lower explosion limit	no data available		
Upper explosion limit	no data available		
Density	0.986 g/cm3 at 25 °C (77 °F)		

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Water solubility	no data available			
Relative vapour	6.15			
Density	- (Air = 1.0)			
Section 10 - Stability and Reactivity				
CHEMICAL STABILITY				
Stable under recommended storage conditions.				
MATERIALS TO AVOID Strong oxidizing agents, , Strong acids				
HAZARDOUS DECOMPOSITION PRODUCTS				
Hazardous decomposition products formed under fire conditions Carbon oxides				
Section 11 - Toxicological	Information			
ACUTE TOXICITY				
TDLo Intraperitoneal - rat - 4,456 mg/kg				
Remarks: Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Other oxidoreductases.				
	onent of this product present at levels greater than or equal to 0.1% is identified			
	ble, possible or confirmed human carcinogen by IARC.			
	onent of this product present at levels greater than or equal to 0.1% is identified			
	nogen or potential carcinogen by ACGIH.			
	onent of this product present at levels greater than or equal to 0.1% is identified vn or anticipated carcinogen by NTP.			
	onent of this product present at levels greater than or equal to 0.1% is identified			
	inogen or potential carcinogen by OSHA.			
REPRODUCTIVE TOXIC	ITY			
Reproductive toxicity - mouse - female - Oral				
Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).				
Reproductive toxicity - mouse - male - Oral Effects on Fertility: Other measures of fertility Effects on Newborn: Live birth index (# fetuses per litter;				
measured after birth).				
Reproductive toxicity - mouse - male - Oral				
Effects on Newborn: Growth statistics (e.g., reduced weight gain).				
Reproductive toxicity - mouse - female - Oral				
Effects on Newborn: Sex ratio. Effects on Newborn: Growth statistics (e.g., reduced weight gain).				
Reproductive toxicity - mouse - female - Oral Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental				
Abnormalities: Musculoskeletal system.				
Reproductive toxicity - mouse - female - Oral				
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).				
Reproductive toxicity - rabbit - female - Oral				
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of				
implants). Reproductive toxicity - mo	use - female - Oral			
Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total				
number of implants per corpora lutea). Effects on Fertility: Post-implantation mortality (e.g., dead and/or				
resorbed implants per total number				
of implants). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).				
Reproductive toxicity - mouse - female - Oral Maternal Effects: Uterus, cervix, vagina.				
Reproductive toxicity - rabbit - female - Oral				
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).				
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Reproductive toxicity - rabbit - female - Oral				
	plantation mortality (e.g., reduction in number of implants per female; total			
number of implants per corpora lutea). Effects on Embryo or Fetus: Fetal death.				

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Reproductive toxicity - rabbit - female - Oral Specific Developmental Abnormalities: Skin and skin appendages. Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Urogenital system. Presumed human reproductive toxicant SpecificPOTENTIAL HEALTH EFFECTS Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Skin: May be harmful if absorbed through skin. May cause skin irritation. Eyes: May cause eye irritation. Ingestion: May be harmful if swallowed. SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. ADDITIONAL INFORMATION RTECS: XF0665000

Section 12 - Ecological Information

n/a

Section 13 - Disposal Considerations PRODUCT Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. CONTAMINATED PACKAGING Dispose of as unused product.

Section 14 - Transport Information DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

Section 15 - Regulatory Information

OSHA HAZARDS Reproductive hazard DSL STATUS All components of this product are on the Canadian DSL list. SARA 302 COMPONENTS SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 COMPONENTS SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 HAZARDS Chronic Health Hazard

Section 16 - Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.