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Material Safety Data for – Dipropylene Glycol (Fragrance Grade)

1. PRODUCT INFORMATION

Canada TDG

Product Identification Number
Shipping Name
Classification

**UN – not regulated for transport
not regulated for transport
not regulated for transport**

USA 49 CFR

Product Identification Number
Shipping Name
Classification

**UN - not regulated for transport
not regulated for transport
not regulated for transport**

Label

not required

WHMIS Class

not controlled under WHMIS

Material Use

solvent, in mfg. of various plastics

2. HAZARDOUS INGREDIENTS

	CAS NUMBER	%	TWAEV ppm	LD₅₀ ORAL	(mg/kg) SKIN	LC₅₀ ppm INHALATION
Dipropylene Glycol	25265-71-8	100%	not listed	14,850	over 20,000	not known

3. PHYSICAL CHARACTERISTICS

Odour & Appearance	clear, colourless, odourless, viscous liquid
Odour Threshold	not known - odourless
Vapour Pressure	0.01mmHg / 0.0013kPa (20°C)
Evaporation Rate (<i>Butyl Acetate</i> = 1)	below 0.01 – not considered volatile
Vapour Density (air = 1)	4.63
Boiling Point	233°C
Freezing Point	-40°C
Specific Gravity	1.025 (20/20°C)
Water Solubility	complete
- in other solvents	in alcohols, ethers, ketones, toluene, poor solubility in aliphatic hydrocarbons
Viscosity	107 centipoise (20°C)

PLEASE ENSURE THAT THIS MSDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.

4. FLAMMABILITY & REACTIVITY

Flash Point	118°C (closed cup)
Autoignition Temperature	224°C
Flammable Limits	2.2% – 12.5%
Combustion Products	carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments
Firefighting Precautions	as for materials sustaining fire – firefighters must wear SCBA
Static Discharge	will not accumulate a static charge
Mechanical Impact	not sensitive
Chemical Stability	stable; will not polymerize
Reactive With	strong oxidising agents
Decomposition Products	none apart from Hazardous Combustion Products

5. TOXICOLOGY**EFFECTS OF ACUTE EXPOSURE**

Skin Contact	virtually without effect
Skin Absorption	slight; no toxic effects likely by this route
Eye Contact	may be mildly irritating
Inhalation	unlikely route of entry for a viscous product with very low vapour pressure
Ingestion	not known – virtually without effect

EFFECTS OF CHRONIC EXPOSURE

General	no effects anticipated
Sensitising	not a sensitiser
Carcinogenic	not a tumorigen, not a carcinogen
Reproductive Effect	no known effect on humans or animals
Synergistic With	none known
Estimated LD ₅₀	14,850mg/kg (oral, rat); over 20,000mg/kg (skin, rabbit)
Estimated LC ₅₀	not known

6. PROTECTIVE EQUIPMENT

Hands	not necessary
Eyes	safety glasses with side shields
Ventilation	not required unless material is strongly heated to produce vapour
Clothing	no special clothing required

7. ENVIRONMENT

Leak Precaution dyke to control spillage and prevent environmental contamination
Handling Spill ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, pick up using shovels, & store in closed containers for disposal
Waste Disposal **do not flush to sewer**; may be incinerated in approved facility
Enviroinfo this product cannot accumulate in living tissue – *disappears from the blood within 24 hours*
this product is readily and rapidly biodegradeable in the presence of oxygen

8. STORAGE & HANDLING

Store and use in a cool dry environment, away from sources of ignition, heat and oxidising agents. Use with adequate ventilation. Do not cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

9. FIRST AID

SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.
INHALATION: Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

EMERGENCY INFORMATION:

Call CANUTEC (collect) (613) 996-6666