

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

Product Name	Gen Heat Chafing Fuel
Chemical Name	Diethylene Glycol
Molecular Weight	106

DEPARTMENT OF TRANSPORT INFORMATION

Hazard Classification	Not regulated
Shipping Classification	Diethylene Glycol

PHYSICAL PROPERTY DATA

Boiling Point 760mm Hg	244.7°C (472°F)
Freezing Point	-7.7°C (18°F)
Specific Gravity (H ₂ O = 1 @ 20/20°C)	1.1184
Vapour Pressure (20°C)	<0.01mm Hg
Vapour Density (Air = 1 @ 20°C)	3.7
Solubility in water (by water @ 20°C)	Completely Miscible
% volatile by volume	100
Evaporation rate (BuAc = 1)	Nil
Appearance and odour	Clear, colourless, mobile syrupy liquid, Essentially odourless

INGREDIENTS

Diethylene glycol, minimum 98.5%

FIRE AND EXPLOSION HAZARD DATA

Flammable in air % by volume	Upper, 10.6% : Lower, 1.7%
Flash Point	137.7°C (280°F) (test method COC) (ASTM D92)
Extinguishing Method	Use CO ₂ or dry chemical for small fires. Alcohol type aqueous film-forming foam or water Spray for large fires.
Special Fire Fighting Procedures	Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapours or products of combustion exists. Water supply can be used to reduce intensity of flames.

REACTIVITY DATA

Stable	
Polymerisation will not occur	
Conditions to avoid	Strong oxidising agents
Hazardous or decomposition products	None

HEALTH DATA

Permissible exposure limits	23 ppm (8-hour TWA) (UK) EH40/95 standard
Ingestion (swallowing)	Humans, the oral lethal dose is 1.2 per Kg. Cause: adverse effects on kidneys. Practically non-toxic to animals
Inhalation (breathing)	No information available
Skin contact	Essentially non-irritating

SPILLAGE OR LEAKAGE PROCEDURES

If material is released or spilled eliminate ignition sources. Avoid eye and skin contact. Place leaking containers in a well ventilated area. If ignition is possible, blanket spill with foam or use water spray to disperse liquid. Take measures to minimise spreading of the spill. To clean up spill, flush area sparingly with water.

Waste Disposal method	When spilled or disposed, product is a non-hazardous waste.
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SPECIAL PROTECTION INFORMATION

Respiratory Protection	Where aerosols, mists or vapours are a problem, use full-face organic vapour cartridge or canister respirator. In all other situations, use self-contained breathing apparatus, ie, face masks
Local Exhaust	This is recommended where appropriate to control employee exposure
Eye Protection	Use chemical safety goggles

SPECIAL SAFETY PRECAUTIONS

Keep containers closed, use only DOT approved containers. Avoid vapours, eye, skin and clothing contact. Wash hands thoroughly with soap and water after handling.