



MANSONVILLE PLASTICS GROUP OF COMPANIES

SAFETY DATA SHEET



Section 1: Company Name & Product Identity

TRADE NAME (s): Korolite Reg, Korolite HD, Koroslope, Geofoam
USE: Insulation and lightweight fill material for commercial, industrial, residential, construction industry
MANUFACTURER: Mansonville Plastics (BC) Ltd
 19402 - 56 Ave
 Surrey, BC V3S6K4
EMERGENCY PHONE NUMBER: 1-800-663-8162 or 604-534-8626

Section 2: Hazard Identification

GHS CLASSIFICATION: None
SYMBOL: Not Applicable
SIGNAL WORD: Not Hazardous
HAZARD STATEMENTS: None
PRECAUTIONARY STATEMENTS: P210 Keep away from heat, sparks, open flames, hot surfaces, or other sources of ignition. No Smoking.
 P261,P262 Avoid breathing dust/fumes from sanding/ cutting. Protect eyes from dust particles and skin abrasion.
 P281,P284 Wear safety glasses, gloves, and respiratory protection when sawing and sanding.
OTHER HAZARDS: Pentane vapour may be emitted from freshly expanded or processed foam. Hazardous concentrations of pentane may accumulate inside a sealed container or within confined space. Electrostatic discharge can be a source of ignition of accumulated pentane vapour exceeding the Lower Explosive Limit.
 Under certain conditions, dust particles from sawing or sanding may create an atmosphere with dust explosion hazard.

Section 3: Composition/Information On Ingredients

Chemical Family Name	CAS No.	Formula	%WT
Polystyrene	9003-53-6	(C ₈ H ₈) _n	98% - 99%
n-pentane*	109-66-0	C ₅ H ₁₂	<2%
Isopentane*	78-78-4		decrease with age

**this is a flammable blowing agent and rapidly decreases with age; see Sec. 5 Fire Fighting Measures*

Section 4: First Aid Measures

EYE CONTACT: Flush eyes with water or saline solution for at least 15 minutes while holding eyelids open. Seek medical attention if irritation persists or worsens.
SKIN CONTACT: No long term effects from exposure. Mechanical injury may need medical attention. Wash exposed area with mild soap and water. Consult physician if irritation persists.
INHALATION: Move to fresh air. If difficulty in breathing persists, seek medical attention.
INGESTION: Product is not expected to present significant ingestion hazard, but if it does occur check for airway obstruction. Do not induce vomiting. Seek medical attention.

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Section 5: Fire Fighting Measures

EXTINGUISHING MEDIA:	Water fog, CO ₂ (carbon dioxide), fire fighting foam, dry chemical (ABC type)
SPECIFIC HAZARD ARISING FROM THE MATERIAL:	If ignited, it may produce dense black/gray smoke which emits hazardous decomposition products.
AUTO IGNITION TEMPERATURE:	440°C (824°F)
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, carbon monoxide, styrene, hydrogen halide, and nuisance particulates
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:	Wear self-contained breathing apparatus and approved personal protective clothing. Pentane vapour may be emitted from freshly expanded/molded foam. Vapour can be ignited by sparks, flames, heat, or other sources of ignition. .

Section 6: Accidental Release Measures

SPILLS: Land:	Sweep up material and place into suitable containers for recycling or disposal. This is considered as a non hazardous waste.
Water:	EPS will float. Use fish net to scoop up. EPS will not leach into water.
Air:	Because it is lightweight, winds can blow the particles around but will settle as wind weakens. Sweep up and dispose accordingly.
WASTE DISPOSAL:	Product is recyclable. Contact local community for drop off sites, or according to local ordinances.

Section 7: Handling and Storage

STORAGE REQUIREMENTS:	Store in a well ventilated area. NO SMOKING should be strictly enforced where EPS products are stored or used. Store products away from open flame and other ignition sources. When stored outside, the blocks should be covered to prevent exposure to UV rays. This can cause discoloration (pale yellow) and fine powdery surface to the block.
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Section 8 :Exposure Controls/Personal Protection

CONTROL PARAMETERS: Threshold Limit Values and Designations -From Table 5.4 of the OH&S Regulations

Chemical Name	Unit	8-hr TWA	15-Min STEL
Pentane	ppm	600	
Styrene	ppm	50	75

ENGINEERING CONTROLS:	General control measures should be taken when cutting, sawing or heat cutting EPS by providing sufficient exhaust ventilation to maintain exposure below permissible personal exposure limit (PEL) expressed as Time Weighted Average (TWA) or Short Term Exposure Limit (STEL) from heated cutting tools.
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RESPIRATORY PROTECTION:	If exhaust ventilation is not available when using heated cutting tools, use an approved NIOSH respirator.
EYE PROTECTION:	Safety glasses/goggles recommended if using saw fabrication to protect eyes from dust particles. Due to the sun reflections off the board, stock workers may wear sunglasses to protect eyes from glare.
SKIN PROTECTION:	To avoid skin irritation or mechanical abrasion, wear appropriate gloves and long sleeved shirts and long pants.

Section 9: Physical and Chemical Properties

APPEARANCE:	White rigid blocks , boards, sheets, panels or forms
PHYSICAL STATE:	Solid
ODOR:	Slight hydrocarbon odor prior to aging; none after aging
pH:	Not Applicable
BOILING POINT:	Not Applicable
MELTING POINT:	Softening or deformation begins at 70 to 80 °C (160 °F - 176 °F)
FREEZING POINT:	Not Applicable
FLASH POINT:	345°C or 650°F (As opposed to paper 230C or 445F) per ASTM D-1929 for EPS
EVAPORATION RATE:	None
FLAMMABILITY:	Lower Flammable Limit (LFL)/Upper Flammable Limit (UFL)- Not Applicable
VAPOR PRESSURE(Air=1):	Not Applicable
VAPOR DENSITY:	Not Applicable
DENSITY	10 TO 47 KG/M ³ (0.6 TO 3 LBS/FT ³)
SOLUBILITY IN WATER	Insoluble
AUTO IGNITION TEMPERATURE:	440°C (824°F)

Section 10: Stability and Reactivity

STABILITY:	Normally Stable
REACTIVITY:	Not Reactive
INCOMPATIBILITY:	Dissolves with organic solvents and oxidizing agents
POSSIBILITY OF HAZARDOUS REACTIONS:	None Expected
CONDITIONS TO AVOID	Sparks, open flames, static discharge, ignition sources
HAZARDOUS DECOMPOSITION PRODUCTS:	If ignited, smoke may contain carbon monoxide, carbon dioxide, styrene, pentane, hydrogen halide, nuisance particulates.

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Section 11: Toxicological Information

ROUTE OF ENTRY: Inhalation, Skin Contact, Eye Contact, Ingestion

EFFECTS OF EXPOSURE: Skin: Direct contact with rough cut foam can cause mechanical abrasion to exposed skin; mild skin irritation.
Eyes: Mild irritation of eyes and mucuos membrane.
Respiratory Irritation: Dust from fabrication and fumes from hot cutting wires may cause upper respiratory tract irritation.

ACUTE/CHRONIC HEALTH EFFECTS: Acute and chronic health effects are unlikely when used as intended.

TOXICITY: No information available

Section 12: Ecological Information

EPS fused products are chemically inert. EPS does not react with ground water nor produce any gases when dumped.

Section 13: Disposal Considerations

WASTE DISPOSAL METHOD: The waste material can be taken to an authorized EPS recycling facility.
EPS is a 100% recyclable material and can be re-ground and incorporated into new products.
Otherwise, dispose in accordance with federal, provincial, and municipal regulations.

Section 14: Transport Information

Not classified as dangerous goods under Canadian TDG regulations

Section 15: Regulatory Information

Workplace Classification: This product is classified as WHMIS non-hazardous.
It is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

Section 16: Other Information

ISSUED: 01-Jan-92
REVISED: 12-Apr-18

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