SAFETY DATA SHEET (SDS)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION	
MANUFACTURER/INITIAL SUPPLIER IDENTIFIER GENYK Inc. 1701, 3rd Avenue, Shawinigan, QC, G9T2W6 Phone: 819-729-0395 / Fax: 819-729-0383	**PRODUCT NAME AND RECOMMENDED USE** Identifier/Trade Name: F48-2, F48,4, F48-5 GRAY RESIN Chemical Name: Polyurea Resin Chemical family: Polyol Resin Blend Use & Restrictions: Component of a polyurea system
Emergency Telephone number	CANUTEC 24-Hour number 613-996-6666 CHEMTREC 24-Hour number 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION	
Classification of the Hazardous Product (Name of the Category or Subcategory of the Hazard Class)	ACUTE TOXICITY, ORAL – Category 4 ACUTE TOXICITY, DERMAL – Category 4 SKIN CORROSION / IRRITATION – Category 1C SERIOUS EYE DAMAGE / EYE IRRITATION – Category 1 SPECIFIC TARGET ORGAN (Pancreas) TOXICITY, REPEATED EXPOSURE – Category 2
Hazardous Pictograms	
Signal Word (GHS)	Danger
Hazardous Statements	H302 – Harmful if swallowed. H312 – Harmful in contact with skin. H314 – Causes severe skin burns and eye damage. H373 – May cause damage to organs (Pancreas) through prolonged or repeated exposure.
Precautionary Statements	P260 – Do not breathe dust/fume/gas/mist/vapours/spray. P264 – Wash skin thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P352 – IF ON SKIN: wash with plenty of water. P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER / doctor. P312 – Call a POISON CENTER / doctor if you feel unwell. P314 – Get medical advice/attention if you feel unwell. P330 - Rinse mouth. P362 + P364 – Take off contaminated clothing and wash it before reuse. P363 – Wash contaminated clothing before reuse. P405 - Store locked up. P501 – Dispose of contents/container into safe container in accordance with local, regional or national regulations.
Other Hazard Known	None

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS		
Chemical name (common name / synonyms)	**CAS # or other**	**Concentration (%)**
Polyoxyalkyleneamine	9046-10-0	30.0 – 60.0
Diethylmethylbenzenediamine	68479-98-1	10.0 – 25.0
Tris(1-chloro-2-propyl) phosphate	13674-84-5	5.0 – 15.0
Glycerine, propoxylated aminated	64852-22-8	5.0 – 15.0
Amine Polyol	1462343-28-7	3.0 – 8.0
All ingredients are listed according to OSHA (29 CFR). *Statement – This Safety Data Sheet provides concentration range(s) instead of the actual concentration(s) by weight (except for gases/propellants by volume) considered trade secret(s).		

SECTION 4: FIRST-AID MEASURES	
Eye Contact	**IF IN EYES:** Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact	**IF ON SKIN**: Take off immediately all contaminated clothing. Rinse skin with water (15-20 minutes). Wash contaminated clothing before reuse.
Inhalation	**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
Ingestion	**IF SWALLOWED**: Rinse mouth. Do NOT induce vomiting. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a doctor if you feel unwell.
Most Important Symptoms and Effects (Acute or Delayed)	Causes severe skin and eye damage.
Indication of Immediate Medical Attention / Special Treatment	In all cases, call a doctor. Do not forget this document.

SECTION 5: FIRE-FIGHTING MEASURES	
Specific Hazards of the Hazardous Product (Hazardous Combustion Products)	Carbon oxides and other irritant/toxic gases and fumes.
Suitable and Unsuitable Extinguishing Media	In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish surrounding products.
Special Protective Equipment and Precaution for Fire-fighters	During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal Precautions, Protective Equipment and Emergency Procedures	Absorb spillage to prevent material-damage. Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).
Methods and Material for Containment and Clean-up	Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

SECTION 7: HANDLING AND STORAGE	
Storage Temperature	15.0 – 38.0 °C (59 – 100 °F)
Shelf Life	12 months
Precautions for Safe Handling	Wear protective gloves/ protective clothing/ eye protection/ face protection. Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8.
Conditions for Safe Storage, Including any Incompatibilities	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

SECTION 8: EXPOSURE CONTROL / INDIVIDUAL PROTECTION	
Control Parameters (biological limit values or Exposure Limit Values and Sources of those Values)	Exposure limits: None known
Appropriate Engineering Controls	Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Individual Protection measures / Personal Protective Equipment	Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Appearance, Physical State / Colour	Gray liquid	**Vapour Pressure**	Not available
Odour	Characteristic	**Vapour Density**	Not available
Odour Threshold	Not available	**Relative Density**	Not available
pH	Not available	**Solubility**	Not available
Melting /Freezing Point	Not available	**Partition Coefficient – n-octanol/water**	Not available
Initial Boiling Point / Range	Not available	**Auto-Ignition Temperature**	Not available
Flash Point	> 93°C (>200 °F)	**Decomposition Temperature**	Not available
Evaporation Rate	Not available	**Specific Gravity**	1.00 to 1.06
Flammability (Solids and Gases)	Not available	**Viscosity**	300 to 700 cps
Upper and Lower Flammability / Explosive limits	Not available	**VOC**	Not available
Other	None known		

SECTION 10: STABILITY AND REACTIVITY	
Reactivity	Does not react under the recommended storage and handling conditions prescribed.
Chemical Stability	Stable under the recommended storage and handling conditions prescribed
Possibility of Hazardous Reactions	None known
Conditions to Avoid (Static Discharge, Shock or Vibration)	Avoid exposure to moisture and low (< 0°C) and high temperatures. Avoid open flame.
Incompatible Materials	Oxidizing materials; acids; etc.
Hazardous Decomposition Products	None known

SECTION 11: TOXICOLOGICAL INFORMATION		
Information on the Likely Routes of Exposure (Inhalation, Ingestion, Skin and Eye Contact)	Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause damage to organs (Pancreas) through prolonged or repeated exposure.	
Symptoms Related to the Physical, Chemical and Toxicological Characteristics	Skin burn, redness, stinging, pain; Eye burn, redness, tearing; Digestive trac burn; Respiratory tract burn, irritation to throat, esophagus and stomach (nausea, abdominal pains, vomiting and diarrhea), cough, shortness of breath; May cause headaches, dizziness, drowsiness, and other central nervous system effects.	
	Skin Sensitization	No data available
	Respiratory Sensitization	No data available
	Germ Cell Mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive Toxicity	No data available
	Specific Target Organ Toxicity-Single Exposure	No data available
	Specific Target Organ Toxicity-Repeated Exposure	Possible
	Aspiration Hazard	No data available
	Health Hazard not Otherwise Classified	No data available

Numerical Measures of Toxicity (ATE; LD_{50} &LC_{50})	CAS 68479-98-1 LD_{50} Oral - Rat – 739 mg/kg LC_{50} Inh. - Rat – >2450 mg/m^3; ATE not available in this document.

SECTION 12: ECOLOGICAL INFORMATION	
Ecotoxicity (Aquatic and Terrestrial Information)	No data available for this product
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

SECTION 13: DISPOSAL CONSIDERATION	
Information on Safe Handling for Disposal / Methods of Disposal / Contaminated Packaging	Dispose of contents/container into safe container in accordance with local, regional or national regulations.

SECTION 14: TRANSPORTATION INFORMATION	
UN Number ; Proper Shipping Name; Class(es) ; Packing Group (PG) of the TDG Regulations	UN2735; POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxyalkyleneamine); CLASSE 8; PG III
UN Number ; Proper Shipping Name; Class(es) ; Packing Group (PG) of the IMDG (Maritime)	UN2735; POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxyalkyleneamine); CLASSE 8; PG III
Sea Transport IMDG UN Number ; Proper Shipping Name; Class(es) ; Packing Group (PG) of the IATA (Air)	UN2735; POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxyalkyleneamine); CLASSE 8; PG III
Special Precautions (Transport / Conveyance)	None
Environmental Hazards (IMDG or other)	Refer to Section 12.
Bulk Transport (usually more than 450 L in capacity)	Possible

SECTION 15: REGULATORY INFORMATION	
Safety / Health Canadian Regulations Specifics	Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
Environmental Canadian Regulations Specifics	Refer to Section 3 for ingredient(s) of the DSL
Safety / Health / Environmental Outside Regulations Specifics	United States OSHA information: This product is regulated according to OSHA (29 CFR). United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. United States TCSA information: Refer to the ingredients listed in Section 3. National Fire Protection Association (NFPA): HEALTH: 2 FLAMMABILITY: 1 INSTABILITY: 1 SPECIAL HAZARDS: Refer to Section 2 & 3. HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe Proposition 65: This product does not contain a chemical known to the State of California to cause cancer or other reproductive harm.

SECTION 16: OTHER INFORMATION	
Date of the Latest Revision of the Data Sheet	August 18th, 2023 version 2 (Genyk Inc.)
Corrections	New SDS template
References	Safety Data Sheets from manufacturer/supplier.
Abbreviations	ACGIH : American Conference of Governmental Industrial Hygienists ATE : Acute Toxicity Estimate CAS: Chemical Abstract Service DSL: Domestic Substance List IARC : International Agency for Research on Cancer IATA : International Air Transport Association IMDG : International Maritime Dangerous Goods Code LC : Lethal Concentration LD : Lethal Dosage NIOSH : National Institute for occupational Safety and Health NTP: National Toxicology Program (U.S.A) OSHA: Occupational Safety and Health Administration (U.S.A) PEL: Permissible Exposure Limit STEL: Short-term Exposure Limit TDG : Transport of Dangerous Goods in Canada TLV : Threshold Limit Value TSCA : Toxic Substance Control Act TWA : Time Weighted Average WHMIS : Workplace Hazardous Materials Information System

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.