

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER

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PRODUCT

Trade Name: DURAFLEX F48
Chemical Name: Polyurea Resin
Chemical family: Amine Resin Blend
Use: Component of a polyurea system

Emergency Telephone number: CHEMTREC 800-424-9300 / CANUTEC 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

SKIN CORROSION / IRRITATION – Category 1
SERIOUS EYE DAMAGE / EYE IRRITATION – Category 2

Hazardous Pictograms



Signal Word (GHS)

Danger

Hazardous Statements

H314 – Causes severe skin burns and eye damage
H317 – May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary Statements

P260 – Do not breathe dust/fumes/gas/vapours/spray.
P264 - Wash hands, face thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310 – If swallowed: immediately call a poison center/doctor
P302 + P352 - If on skin: Wash with plenty of water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse
P337 + P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/container to comply with applicable local, national and international regulation

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	% (W/W)
Polyoxyalkyleneamine	9046-10-0	30 - 60
Diethylmethylbenzenediamine	68479-98-1	10 - 30
Glycerine, propoxylated aminated	64852-22-8	5 - 15

SECTION 4: FIRST-AID MEASURES

If in eyes	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.
If on skin	Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.
If inhaled	Move the affected person to fresh air. Assist in breathing if necessary. Immediate medical attention required.
If swallowed	Rinse mouth immediately and drink 200 –300 ml of water, seek medical attention. Do not induce vomiting.

Note to physician	Treat according to symptoms (decontamination, vital functions), no known specific antidote.
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SECTION 5: FIRE-FIGHTING MEASURES

Flash Point	>150°C (> 302°F)
Suitable Extinguishing Media	Water spray, dry powder, carbon dioxide, foam.
Hazards during fire fighting	No particular hazard known.
Protective equipment for firefighting	Firefighters should be equipped with self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid breathing vapours. Provide adequate ventilation and use suitable protective equipment.
Environmental Precautions	Do not discharge into drains/surface water/groundwater.
Clean-up	Cover with an absorbent product, scoop up and put in suitable containers for disposal. Do not throw residues in the sewer. Dispose via a licensed waste disposal company. Wash the spill area with soap and water.

SECTION 7: HANDLING AND STORAGE

Storage Temperature	15 – 25 °C (59 – 77 °F)
Storage Life	12 months
Handling	Do not inhale vapors. Avoid contact with skin and eyes. Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Use only with adequate ventilation and wear appropriate respirator when ventilation is inadequate. Keep the product in the original container or an approved alternative made from a compatible material; keep tightly closed and sealed until ready for use.
Safety Precautions in Storage	Store in a dry, well-ventilated area and in tightly closed containers. Avoid extreme heat and store away from frost.

SECTION 8: EXPOSURE CONTROL / INDIVIDUAL PROTECTION

EXPOSURE LIMIT VALUES

Ingredients	WEEL (AIHA) (TWA) – 8 hr	OSHA PEL (TWA) – 8 hr
Polyoxyalkyleneamine	N/A	N/A
Diethylmethylbenzenediamine	N/A	N/A

INDIVIDUAL PROTECTION EQUIPMENT

Respiratory Protection	Wear a NIOSH approved, legally approved respiratory protection device when necessary and especially in cases where exposure standards may be excessive.
Eye Protection	Use appropriate chemical goggles or face shields. Do not wear contact lenses when working with this product.
Skin Protection	Wear chemical resistant gloves and protective clothing.
General Safety and Hygiene Measures	Wash soiled clothing immediately.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES


Appearance	Reddish liquid (can be tinted)
Odour	Slight amine odour
Vapor Pressure	N/A
Vapor density	N/A
Flash Point	>150 °C (>302°F)
Auto-Ignition Temperature	N/A
Specific Gravity	1.00 to 1.06
Solubility in Water	N/A

SECTION 10: STABILITY AND REACTIVITY	
Chemical Stability	The product is chemically stable.
Reactivity	No dangerous reactions under normal storage and handling conditions.
Conditions to avoid	Avoid exposure to moisture and high temperatures. Avoid open flame.
Substances to avoid	Avoid contact with strong acids and strong oxidizers.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION	
POTENTIAL ACUTE HEALTH EFFECTS	
Eye Contact	Product liquids and vapours are irritating. Vapors may cause glaucoma and blurred vision.
Skin Contact	May cause irritation and dermatitis.
Inhalation	May cause headaches, dizziness.
Ingestion	May cause irritation to throat, esophagus and stomach and may cause gastrointestinal disturbances.
POTENTIAL CHRONIC HEALTH EFFECTS	
Sensitization	Not known or reported.
Carcinogenic Effects	The components of this product are not listed by IARC or regulated as a carcinogen by OSHA.
Mutagenic Effects	Not known or reported.
Developmental Effects	Not known or reported.
Reproductive Effects	Not known or reported.

SECTION 12: ECOLOGICAL INFORMATION	
Ecological testing has not been conducted for this product.	
Aquatic Toxicity	Can be harmful in large quantities to aquatic organisms. The product has not been tested; the indication is derived from the properties of individual components.

SECTION 13: DISPOSAL INFORMATION	
Waste Disposal Method	Waste must be disposed of in compliance with federal, state, provincial and local environmental control regulations. Dispose of via licensed waste disposal company.
Empty Containers Disposal	Containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14: TRANSPORTATION INFORMATION	
Technical Name	DURAFLEX F48
Land Transport TDG	 Amine liquid corrosive, UN2735, Class 8, PG III Label:
Sea Transport IMDG	Amine liquid corrosive, UN2735, Class 8, PG III Label: Corrosive
Air Transport IATA/ICAO	Amine liquid corrosive, UN2735, Class 8, PG III Label: Corrosive

SECTION 15: REGULATORY INFORMATION	
WHMIS	Class D-1B / Material causing immediate and serious toxic effects (toxic) Class D-2B / Material causing other toxic effects (toxic) Class E / Corrosive material
CEPA (DSL)	All components are listed in the Domestic Substances List.

SECTION 16: INFORMATION		
HMIS Rating (0=minimal/1=slight/2=moderate/3=serious/4=severe)	Health	2
	Fire Hazard	1
	Reactivity	0
This product does not contain ozone depleting substances		
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.		
Prepared by	Genyk Inc.	
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