

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Supplier Details:** Chemline  
5151 Natural Bridge Road  
Saint Louis, MO 63115

**Emergency:** CHEMTREC 1-800-424-9300 (24 hr service)  
**Phone:** 314-664-2230  
**Fax:** 314-254-1355  
**Web:** www.chemline.net

### 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Serious Eye Damage/Eye Irritation, 1  
Health, Skin corrosion/irritation, 1 C  
Environmental, Hazards to the aquatic environment - Chronic, 3  
Health, Skin corrosion/irritation, 2  
Health, Serious Eye Damage/Eye Irritation, 2 A  
Physical, Flammable Liquids, 3  
Health, Specific target organ toxicity - Single exposure, 3  
Health, Acute toxicity, 5 Dermal  
Health, Acute toxicity, 5 Oral

#### GHS Label elements, including precautionary statements

**GHS Signal Word:** **DANGER**

##### GHS Hazard Pictograms:



##### GHS Hazard Statements:

H318 - Causes serious eye damage  
H314 - Causes severe skin burns and eye damage  
H412 - Harmful to aquatic life with long lasting effects  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H226 - Flammable liquid and vapor  
H336 - May cause drowsiness or dizziness  
H313 - May be harmful in contact with skin  
H303 - May be harmful if swallowed

##### GHS Precautionary Statements:

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/light/equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

- P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P281 - Use personal protective equipment as required.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P308+313 - IF exposed or concerned: Get medical advice/attention.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+313 - If skin irritation occurs: Get medical advice/attention.  
P337+313 - Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P370+378 - In case of fire: Use dry chemical, foam, carbon dioxide or water for extinction.  
P403+233 - Store in a well ventilated place. Keep container tightly closed.  
P403+235 - Store in a well ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to a licensed waste disposal facility.

### Hazards not otherwise classified (HNOC) or not covered by GHS

<b>Route of Entry:</b>	Eyes; Ingestion; Inhalation; Skin;
<b>Target Organs:</b>	Respiratory system; Skin; Eyes; Lungs;
<b>Inhalation:</b>	Heating, spraying, foaming, or otherwise mechanically dispersing (drumming, venting or pumping) operations of this blend may generate more vapor or aerosol concentrations of its components. High vapor concentrations may cause dizziness, headaches, nausea, loss of balance and coordination.
<b>Skin Contact:</b>	May cause mild skin irritation. Prolonged contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.
<b>Eye Contact:</b>	Will cause irritation on contact. Symptoms from exposure include watering or discomfort of the eyes with marked excess redness and swelling.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Cas#	%	Chemical Name
98-56-6	25-45%	Benzene, 1-chloro-4-(trifluoromethyl)-
0	75-95%	Proprietary aspartic ester
9046-10-0	2-3%	Poly[oxy(methyl-1,2-ethanediyl)], al pha. -(2-aminomethyl ethyl) -. omega. -(2-aminomethyl ethoxy) -

### 4 FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility immediately.
<b>Skin Contact:</b>	Remove contaminated clothing immediately. Wash with large quantities of soap and water. For severe exposure, get under safety shower after removing clothing, then get medical attention. Wash clothing before reuse. Seek medical attention if redness, burning or an itching sensation develops or persists after the area is washed.
<b>Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes. Use fingers to assure that the eyelids are separated and that the eye is being irrigated. Seek immediate medical attention.
<b>Ingestion:</b>	Seek immediate medical attention. Do not induce vomiting unless prompted to do so by a medical professional. Never give anything by mouth to an unconscious person. This material is an aspiration hazard.

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### FIRE FIGHTING MEASURES

<b>Flammability:</b>	OSHA/DOT - Combustible liquid - Class II
<b>Flash Point:</b>	109°F
<b>Flash Point Method:</b>	COC
<b>Burning Rate:</b>	N/A
<b>Autoignition Temp:</b>	NDA
<b>LEL:</b>	N/A
<b>UEL:</b>	N/A

Use dry chemical, foam, carbon dioxide, halogenated agents or water. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. A solid stream of water directed into the hot burning liquid could cause frothing. If possible, contain fire run-off water.

Protective Equipment: Positive-pressure self-contained breathing apparatus with full face-piece and full protective clothing should be worn by fire-fighters.

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### ACCIDENTAL RELEASE MEASURES

**Spill:** Evacuate area. Isolate and confine spill area. Remove all sources of ignition sources like flames, heating elements, gas engines, etc. Use non-sparking tools. Emergency clean-up personnel should select the specific respirator based on contamination levels found. Use air purifying respirator equipped with full-face organic vapor cartridge if vapors are detected, or are irritating. In areas of high concentrations, fresh air-line respirators or self-contained breathing apparatus and protective clothing should be used. Prevent spreading and contamination of surface waters and drinking supplies. Notify local health officials and other appropriate agencies if such contamination should occur.

**Clean up:** With adequate ventilation and appropriate full personal protective equipment, cover the area with an inert absorbent material such as clay or vermiculite and transfer to steel waste containers. Ventilate area to remove the remaining vapors

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### HANDLING AND STORAGE

**Handling Precautions:** Combustible. Ground containers. Avoid skin and eye contact. Use personal protective equipment when transferring material to or from drums, totes or other containers. If contamination with isocyanates is suspected, do not reseal containers. Do not smoke or use naked lights, open flames, space heaters, or other ignition sources near pouring, frothing or spraying operations. Material can ignite if exposed to open flames.

**Storage Requirements:** Storage: When stored between 15 and 30°C (60 and 85°F) in dry area in sealed containers, typical shelf life is 6 months or more from the date of manufacture. Consult technical data sheet for shelf life requirements affecting performance quality. Opened containers must be handled properly to prevent moisture pickup.

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** General/local ventilation typically control vapor levels very adequately. Uses requiring heating or spraying may require more ventilation or PPE.

**Personal Protective Equipment:** Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6) [25-45%] : no data available

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0) [2-3%] : no data available

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### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Pigmented liquid.	<b>Odor:</b>	Naphthalenic
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Not soluble in water.
<b>Odor Threshold:</b>	No data available	<b>Percent Volatile:</b>	57% by weight, 51% by volume
<b>Spec Grav./Density:</b>	No data available	<b>Freezing/Melting Pt.:</b>	Not determined
<b>Viscosity:</b>	No data available	<b>Flash Point:</b>	109°F
<b>Boiling Point:</b>	>280°F	<b>Vapor Density:</b>	>1
<b>Flammability:</b>	Combustible	<b>Auto-Ignition Temp:</b>	NDA
<b>Partition Coefficient:</b>	No data available	<b>UFL/LFL:</b>	No data available
<b>Vapor Pressure:</b>	No data available		
<b>pH:</b>	No data available		
<b>Evap. Rate:</b>	<1		
<b>Decomp Temp:</b>	No data available		

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### STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Product is stable under normal conditions. This is a combustible material. Avoid high temperatures, sparks, flame and extended exposure over 85°F (25°C).
<b>Conditions to Avoid:</b>	High temperatures, sparks, flame and extended exposure over 85°F (25°C)
<b>Materials to Avoid:</b>	Incompatible with oxidizing materials, strong alkalies, amines and acids.
<b>Hazardous Polymerization:</b>	Will not occur.

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### TOXICOLOGICAL INFORMATION

Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6) [25-45%]

Information on toxicological effects

Acute toxicity:  
LD50 Oral - rat - 13,000 mg/kg  
Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: Human Embryo Unscheduled DNA synthesis

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: XS9145000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0) [2-3%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 2,885.3 mg/kg

Inhalation LC50 LC50 Inhalation - rat - 8 h - > 0.74 mg/l

Dermal LD50 LD50 Dermal - rabbit - 2,980 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation Skin - rabbit - Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours an observations up to 14 days. - OECD Test Guideline 40

Serious eye damage/eye irritation Eyes - rabbit - Corrosive to eyes - OECD Test Guideline 40

Respiratory or skin sensitisation

Germ cell mutagenicity Animal testing did not show any mutagenic effect

Genotoxicity in vitro - Not mutagenic in Ames Test

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified a probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Teratogenicity

Specific target organ toxicity - single exposure (Globally Harmonized System:  
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System:  
no data available

Aspiration hazard

Potential health effects

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Signs and Symptoms of Exposure Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough Shortness of breath, Headache, Nausea

Synergistic effects

Additional Information

Repeated dose toxicity - rat - Dermal - No observed adverse effect level - 250 mg/kg

Repeated dose toxicity - rat - Oral - No observed adverse effect level - 239 mg/kg RTECS: Not available

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**ECOLOGICAL INFORMATION**

Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6) [25-45%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0) [2-3%]

Information on ecological effects

Toxicity:

Toxicity to fish semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 15 mg/l - 96 h.

static test NOEC - Oncorhynchus mykiss (rainbow trout) - 15 mg/l - 96 h

Toxicity to daphnia static test EC50 - Daphnia - 80 mg/l - 48 h.

and other aquatic Method: OECD Test Guideline 202 invertebrates

NOEC - Daphnia - 18 mg/l - 48 h

Persistence and degradability: Biodegradability Result: 0 % - According to the results of tests of biodegradability this product is not readily biodegradable.  
Method: OECD Test Guideline 301B

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

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**DISPOSAL CONSIDERATIONS**

Disposal: Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state or local requirements for proper classification information.

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**TRANSPORT INFORMATION**

UN1263, Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, 3, PGIII

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**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

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None available

Regulatory CODE Descriptions

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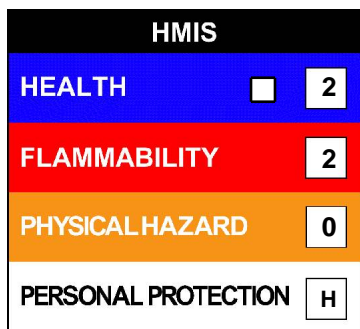
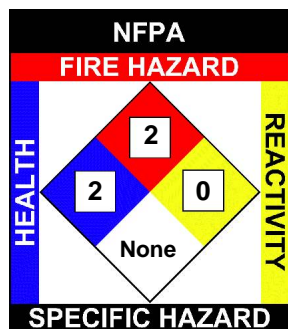
TSCA = Toxic Substances Control Act  
IARC = IARC Carcinogen Risks  
MASS = MA Massachusetts Hazardous Substances List  
OSHAWAC = OSHA Workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
TXAIR = TX Air Contaminants with Health Effects Screening Level

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**OTHER INFORMATION**

NFPA: Health = 2, Fire = 2, Reactivity = 0, Specific Hazard = None

HMIS III: Health = 2, Fire = 2, Physical Hazard = 0

HMIS PPE: H - Splash Goggles, Gloves, Apron, Vapor Respirator


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