



MATERIAL SAFETY DATA SHEET
845-01 / 845-032 / 847-05 / 848-55

Canutec 1-613-996-6666 (24 hours)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product identification : 845-01 / 845-032 / 847-05 / 848-55
Product name : Fall Out
Chemical family : Mixture
Supplier / Manufacturer : Auto-Chem Inc.
33 de Lyon
Repentigny, QC, Canada
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Contact : Jean Dagenais

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS</u>	<u>Percentage</u>	<u>Exposure limits</u>
Glycolic acid	79-14-1	5 – 10	LD50 1938 mg/kg, rat, oral LC50 >5.2 mg/l/4hrs, rat, female LC50 3.6 mg/l/4hrs, rat, male
Oxalic acid	6153-56-6	5 – 10	LD50 375 mg/kg, rat, oral LD50 20000 mg/kg, rabbit, dermal TLV TWA 1 mg/m3, ACGIH STEL 2 mg/m3, ACGIH
Tallow amine	61791-26-2	5 – 10	No data.

3. HAZARDS IDENTIFICATION

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects :

Eye contact : Contact may cause eye corrosion with corneal or conjunctival ulceration.
Skin contact : May cause severe skin irritation with discomfort or rash.
Inhalation : May cause irritation of mucous membranes with upper respiratory and bronchial irritation.
Ingestion : May cause corrosion of mucous membranes with stomach discomfort, nausea, and prostration. Fatality may occur from gross exposure.

Potential chronic health effects :

Eye contact : Overexposure can cause irreversible damages to the cornea.
Skin contact : Prolonged exposure may cause skin burns or ulceration.
Inhalation : None known.
Ingestion : Harmful if swallowed.

4. FIRST AID MEASURES

- Eyes : Rinse immediately with water or a saline solution for 15 to 20 minutes, lifting the upper and lower eyelids. Remove contact lenses. Obtain immediate medical attention.
- Skin : In case of direct contact, rinse with running water 15 to 20 minutes. Remove contaminated clothing and wash with soap and water. Obtain medical attention if symptoms occur or if a large area is affected.
- Inhalation : Remove person to fresh air. In case of respiratory failure, give artificial respiration. In case of respiratory distress, obtain medical attention.
- Ingestion : Give milk or water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. In case of respiratory or cardiac arrest, start cardio-pulmonary resuscitation and obtain medical attention. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

- Flash point : Does not apply.
- Auto-ignition temperature : Does not apply.
- Flammability limits – air (%) : LEL: UEL:
- Extinguishing media : Suitable for cause of fire.
- Protective equipment : Firefighters must wear adequate protective equipment and NIOSH/MSHA approved autonomous masks.
- Hazardous combustion materials : Carbon oxides, nitrous oxides, may produce irritant or toxic gases, namely formic acid.
- Recommendations: Move containers away from the source of fire if safe to do so. Do not disperse product with high pressure water jets. Dam water run-off. Cool containers with water.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protection equipment.

Limit access of spill area to qualified personnel. Good ventilation is necessary. Do not touch spilled product. Prevent spilled product from reaching sewers or waterways. Stop or restrain leak if safe to do so.

- Small spill : Contain and absorb product with a non-reactive absorbent material. Neutralize with a weak solution of sodium bicarbonate. Clean with water. Store residues in a closed container and identify for elimination.
- Large spill : Contain and absorb product with a non-reactive absorbent material. Neutralize with a weak solution of sodium bicarbonate. Clean with water. Store residues in a closed container and identify for elimination.

7. HANDLING AND STORAGE

- Handling : Do not breathe vapours or aerosol. Avoid contact with eyes or skin by wearing appropriate equipment. Avoid contact with incompatible materials. Wash carefully after handling the product. Clean contaminated clothing before reuse. Empty containers may contain residue. Eliminate according to current regulations.
- Storage : Store in a cool and dry area, well ventilated and away from incompatible products. Keep from freezing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls : Use local ventilation to control vapours and aerosols.

Personal protection equipment for routine handling :

Eye : Splash goggles.
Skin : Long sleeves, lab coat.
Gloves : Impermeable gloves.
Inhalation : If necessary, use NIOSH/MSHA approved mask.

Personal protection equipment for spills :

Eyes : Splash goggles.
Skin : Impermeable clothes.
Gloves : Impermeable gloves, chemical resistant.
Inhalation : NIOSH/MSHA approved mask. If in an enclosed space, an autonomous mask is recommended.

Note : These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Transparent liquid.
Colour : Colourless.
Odour : Sweet.
pH @ 1% : 2.49
Relative density (g/cm³) : 1.042
Boiling point : 100 C
Freezing point : 0 C
Vapour pressure : Not determined.
Volatiles (weight) : Not determined.
Solubility (water) : Soluble.
VOC (%) : Not determined.
Viscosity : 60 cps, Brookfield, Spindle 2, 50 rpm.

10. STABILITY AND REACTIVITY

Chemical stability : Stable.
Hazardous polymerization : None known.
Conditions to avoid : None known.
Materials to avoid : Reaction with some metals can cause the formation of flammable hydrogen gas. Alkalis, strong oxidants.
Dangerous decomposition products : Carbon oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Ingredient	CAS	Percentage	Exposure limits
Glycolic acid	79-14-1	5 – 10	LD50 1938 mg/kg, rat, oral LC50 >5.2 mg/l/4hrs, rat, female LC50 3.6 mg/l/4hrs, rat, male
Oxalic acid	6153-56-6	5 – 10	LD50 375 mg/kg, rat, oral LD50 20000 mg/kg, rabbit, dermal TLV TWA 1 mg/m ³ , ACGIH

Tallow amine	61791-26-2	5 - 10	STEL 2 mg/m3, ACGIH No data.
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Potential acute health effects :

Eye contact :	Contact may cause eye corrosion with corneal or conjunctival ulceration.
Skin contact :	May cause severe skin irritation with discomfort or rash.
Inhalation :	May cause irritation of mucous membranes with upper respiratory and bronchial irritation.
Ingestion :	May cause corrosion of mucous membranes with stomach discomfort, nausea, and prostration. Fatality may occur from gross exposure.

Potential chronic health effects :

Carcinogenic effects: None known.
Mutagenic effects: None known.
Teratogenic effects: None known.

12. ECOLOGICAL INFORMATION

Ingredient	CAS	Test	Species
Glycolic acid	79-14-1	LC50 93mg/l, 24-48hrs	Bluegill sunfish
Oxalic acid	6153-56-6	LC50 4000mg/l	Bluegill sunfish
		LC50 1350 mg/l	Mosquito fish

13. DISPOSAL CONSIDERATIONS

Waste disposal method :	Dispose according to municipal, provincial and federal regulations.
Contaminated packaging :	According to municipal, provincial and federal regulations.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

WHIMS : D2B Materials causing other toxic effects.
E Corrosive materials.

DSL : All components of this product are either on the Domestic Substance List (DSL), the Non-Domestic Substance List (NDSL) or exempt.

TSCA : U.S. TSCA Inventory Status : All components of this product are either on the Toxic Substances Control Act Inventory List or exempt.

16. OTHER INFORMATION

Prepared by : Auto-Chem Inc.

Date : Sept. 2015

Notice to reader :

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Auto-Chem makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Auto-Chem's control and therefore users are responsible to verify this data under their own operation conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.