



## SAFETY DATA SHEET

### 1 – IDENTIFICATION

IDENTIFIER	FALL OUT
PRODUCT CODE	845-016, 845-032, 845-01, 847-05, 848-55
RECOMMENDED USE	Liquid fallout remover
RESTRICTIONS ON USE	Do not mix with other cleaning products.
SUPPLIER / MANUFACTURER	AUTO-CHEM INC 33 de Lyon Repentigny, QC J5Z 4Z3 450-654-9292 www.autochem.com
EMERGENCY TELEPHONE	CANUTEC 1-613-996-6666 (24 hours)

### 2 – HAZARD IDENTIFICATION

CLASSIFICATION	Skin irritation 2 Eye irritation 2A Acute toxicity, oral 5 Acute toxicity, dermal 5 Acute toxicity, inhalation 4 Specific target organ toxicity Single exposure 3: Respiratory tract irritation. Hazardous to the aquatic environment, acute hazard 2	
LABEL ELEMENTS		
SIGNAL WORD	WARNING	
HAZARD STATEMENT	H303 H315 H319 H332 H335 H401	May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Toxic to aquatic life.
PRECAUTIONARY STATEMENTS – PREVENTION	P261 P264 P271 P273 P280	Wash hands thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves, protective clothing, eye protection, face protection.
PRECAUTIONARY STATEMENTS – RESPONSE	P312 P302+P352 P321  P332+P313 P362-P364	Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN: Wash with plenty of water. Specific treatment: Keep affected area under running water for several minutes. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

	P305+P351+P338  P337+P313 P304+P340	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
PRECAUTIONARY STATEMENTS – STORAGE	P403-P233  P405	Store in a well ventilated place. Keep container tightly closed. Store locked up.
PRECAUTIONARY STATEMENTS - ELIMINATION	P501	Dispose contents/containers according to municipal, provincial and federal regulations.
OTHER HAZARDS	Not applicable	

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	C.A.S	CONCENTRATION
Oxalic acid	144-62-7	1.0 – 4.0*
Glycolic acid	79-14-1	3.0 - 6.0*
Monoethanolamine	141-43-5	< 1.0*
Ethoxylated linear alcohols C12-C14	68439-50-9	0 - 6.0*
Ethoxylated linear alcohols C12-C15	68131-39-5	0 – 6.0*

\* TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

### 4 – FIRST AID MEASURES

ROUTE OF EXPOSURE	Inhalation, eyes, skin, ingestion
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INHALATION	IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CONTROL CENTER or physician.
DERMAL	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
OCULAR	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
ORAL	NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.
NOTE TO PHYSICIAN	Specific treatment: treat symptomatically.

### 5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Carbon dioxide, water spray, according to the nature of the fire. Dry chemical powder or water can be used to cool containers.
UNSUITABLE EXTINGUISHING MEDIA	None.

SPECIFIC HAZARDS	Hazardous combustion materials: carbon oxides, nitrogen oxides, acrid smoke and fumes.
PROTECTIVE EQUIPMENT	Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.
PRECAUTIONS	Do not let water run-off reach sewers, ditches or waterways.

## 6 – ACCIDENTAL RELEASE MEASURES

PROTECTIVE EQUIPMENT	Wear appropriate respiratory equipment (See Section 8). Avoid direct contact with product. Remove non-essential personnel.
CONTAINMENT AND CLEAN UP	Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.
ENVIRONMENTAL PRECAUTIONS	Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal, provincial and federal regulations.

## 7 – HANDLING AND STORAGE

HANDLING	Containers must be identified correctly. Handle in a well ventilated area. Avoid breathing dust, vapours or mists. Avoid contact with eyes, skin and clothes. Keep containers closed when not in use. Empty containers may contain residues and must be handled as hazardous waste. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse.
STORAGE	Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.
INCOMPATIBLE MATERIALS	Alkalis.

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	C.A.S.	SOURCE	VALUE
Oxalic acid	144-62-7	CSST	TWA 1 mg/m <sup>3</sup>
		CSST	STEL 1 mg/m <sup>3</sup>
		NIOSH	TWA 1 mg/m <sup>3</sup>
		NIOSH	STEL 1 mg/m <sup>3</sup>
		ACGIH	TWA 1 mg/m <sup>3</sup>
		ACGIH	STEL 1 mg/m <sup>3</sup>
Glycolic acid	79-14-1		No established limits.
Monoethanolamine	141-43-5	CNESST	TWA 3 ppm (7.5 mg/m <sup>3</sup> )
		CNESST	STEL 6 ppm (15 mg/m <sup>3</sup> )
		NIOSH	TWA 3 ppm (8 mg/m <sup>3</sup> )
		NIOSH	STEL 6 ppm (15 mg/m <sup>3</sup> )
		NIOSH	IDLH 30 ppm
		OSHA	TWA 3 ppm (8 mg/m <sup>3</sup> )
		OSHA	STEL 6 ppm (15 mg/m <sup>3</sup> )
		ACGIH	TWA 3 ppm

		ACGIH	STEL 6 ppm
Ethoxylated linear alcohols C12-C14	68131-39-5		No established limits.
Ethoxylated linear alcohols C12-C15	68439-50-9		No established limits.

ENGINEERING CONTROLS	Use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels to an acceptable level.
RESPIRATORY PROTECTION	Maintain atmospheric concentrations below exposure limits. If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.
PROTECTIVE EQUIPMENT AND CLOTHING	Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.
OCULAR PROTECTION	Chemical goggles; also wear a face shield if splashing hazard exists.
GENERAL HYGIENE RECOMMENDATIONS	Ensure that eyewash stations and safety showers are proximal to the work-station location. Avoid production of high concentrations of dust, vapours or mists. Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Translucent liquid.
ODOUR	Sweet.
ODOUR TRESHOLD	Not available.
pH	2.00
MELTING / FREEZING POINT	0°C
INITIAL BOILING POINT	100°C
FLASH POINT	Not applicable.
EVAPORATION RATE	Not available.
FLAMMABILITY	Non flammable.
LOWER FLAMMABLE/EXPLOVISE LIMIT	Not applicable.
UPPER FLAMMABLE/EXPLOSIVE LIMIT	Not applicable.
VAPOUR PRESSURE	Not available.
VAPOUR DENSITY	Not available.
RELATIVE DENSITY	1.03
SOLUBILITY (in water)	Soluble.
PARTITION COEFFICIENT (n-octanol/water)	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VOC	0 g/L
VISCOSITY Spindle 1, 100 rpm	43.3 cPs

## 10 – STABILITY AND REACTIVITY

REACTIVITY	Stable under recommended usage.
CHEMICAL STABILITY	Stable under normal usage conditions.
HAZARDOUS REACTIONS	Polymerization will not occur.
CONDITIONS TO AVOID	Incompatible materials.
INCOMPATIBLE MATERIALS	Alkalis, other cleaning products.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides, nitrogen oxides.
ADDITIONAL INFORMATION	None.

## 11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	
INHALATION	Causes irritation of the respiratory tract. Shortness of breath.
DERMAL	Causes skin irritation. Redness.
OCULAR	Causes serous eye irritation. Ulceration of the cornea and conjunctive tissues.
ORAL	May cause irritation of the mucous membranes, nausea, and gastrointestinal upset.
CHRONIC EFFECTS	
INHALATION	No data.
DERMAL	No data.
OCULAR	No data.
ORAL	No data.
ADDITIONAL INFORMATION	
CARCINOGENIC EFFECTS (IARC)	Not classified.
MUTAGENIC EFFECTS	No data.
TERATOGEN EFFECTS	No data.
REPRODUCTION	No data.
SENSIBILISATION	No data.
TARGET ORGANS	Respiratory tract, eyes, skin.
AGGRAVATED CONDITIONS	No data.
SYNERGISTIC SUBSTANCES	No data.

PRODUCT	ETA
Oral	5617.8 mg/kg (estimated)
Dermal	5000 < (estimated)
Inhalation	14.9 mg/L (estimated)

CHEMICAL NAME	C.A.S.	LD50 ORAL mg/kg	LD50 DERMAL mg/kg	LC50 INHALATION mg/L/4hr
Oxalic acid	144-62-7	375, rat	No data.	No data.
Glycolic acid	79-14-1	2040, rat	No data.	3.6, rat
Monoethanolamine	141-43-5	1515, rat	1018, rabbit	>0.180, rat
Ethoxylated linear alcohols C12-C14	68439-50-9	No data.	No data	No data.
Ethoxylated linear alcohols C12-C15	68131-39-5	1650 – 2000, rat.	>2000, rabbit	No data.

## 12 – ECOLOGICAL INFORMATION

Glycolic acid	79-14-1
LC50 164 mg/L, 96 h	Pimephales promelus
EC50 22.5 mg/L, 72 h	Pseudokirchneriella subcapitata
EC50 141 mg/L, 48 h	Daphnia magna

Oxalic acid	144-62-7
LC50 4000 mg/L, 24 h	Lepomis macrochirus

Monoethanolamine	141-43-5
LC50 114 – 196 mg/L, 96h, static	Oncorhynchus mykiss
LC50 300 – 1000 mg/L, 96h, static	Lepomis macrochirus
LC50 227 mg/L, 96 h, dynamic	Pimephales promelas
LC50 3684 mg/L, 96h, static	Brachydanio rerio
LC50 200 mg/L, 96h, dynamic	Oncorhynchus mykiss
EC50 15 mg/L, 72h	Desmodesmus subspicatus

Ethoxylated linear alcohols C12-C15	68131-39-5
CE50 0.7 mg/L, 96h	Scenedesmus capricornutum
CE50 1.3 mg/L, 48h	Daphnia magna
CL50 1.5 mg/L, 96h	Poisson

PERSISTENCE AND DEGRADABILITY	Not available.
BIOACCUMULATIVE POTENTIAL	Not available.
SOIL MOBILITY	Not available.
OTHER ADVERSE EFFECTS	Toxic to aquatic life. Avoid release to the environment.
ADDITIONAL INFORMATION	Do not let material or fire-fighting water run-off enter sewers or waterways. Obstruct drains and ditches. Affected areas must be cleaned and restored to their original conditions or to the satisfaction of the authorities.

### 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
CONTAMINATED PACKAGING	Empty containers should be recycled or disposed of through an approved waste management facility.

### 14 – TRANSPORT INFORMATION

TRANSPORT OF DANGEROUS GOODS (CANADA)
Not regulated for transport.

MARINE POLLUTANT	No.
SPECIAL PRECAUTIONS	None.

### 15 – REGULATORY INFORMATION

CANADA	
CEPA	All components of this product are either listed or exempt from listing on the Domestic substances List (DSL).
USA	
TSCA	All components of this product are either listed or exempt from listing on the Toxic Substances Control Act (TSCA) Inventory.

### 16 – OTHER INFORMATION

VERSION	2.0
DATE	September 1 <sup>st</sup> 2021
PREPARED BY	AUTO-CHEM INC
ABBREVIATIONS	ABBREVIATIONS
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
CIRC	Centre International pour la Recherche sur le Cancer
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
CE / EC	Concentration efficace / Effective concentration
IARC	International Agency for Research on Cancer
LCPE	Loi Canadienne sur la Protection de l'Environnement
LES/NDSL	Liste extérieure des substances / Non domestic substances list
LIS/DSL	Liste intérieure des substances / Domestic substances list
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

SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
STOT	Specific target organ toxicity
TCOC	Toxicité pour certains organes cibles
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
VECD	Valeur exposition courte durée
VEMP	Valeur exposition moyenne pondérée
WHMIS	Workplace Hazardous Materials Information System
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