



**SAFETY DATA SHEET  
EACO CHEM, INC.**

**Issue Date:** 01/01/16 **Revision Date:** 10/4/2017

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product Name:** Graf-Ex

**Recommended Use of the Mixture and Restrictions On Use:**

**Restricted To:** For Professional Use Only

**Uses Advised Against:** Not Recommended for Household Use.

**Details of the Supplier of the Safety Data Sheet**

**Manufacturers Address:**

EaCo Chem, Inc.  
765 Commerce Avenue  
New Castle, PA 16101  
724-656-1055

**Emergency telephone number :**

8:00 AM to 5:00 PM EST Monday-Friday 1-800-313-8505

Non-Business Hours (CHEM-TEL) 1-800-255-3924

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of Mixture**

GHS Classification HCS 2012 (29 CFR 1910)

Hazard Class	Category	Hazard Statements	Precautionary Statements
Acute Toxicity – Oral / Dermal / Inhalation	4	H302, H305, H312, H333, H335	P261, P270, P271, P301+P330+P331, P304+P340
Skin Irritation	2	H315	P264, P280, P270 P303+P362+P352, P363, P314
Eye Damage / Irritation	2	H319	P280, P305+P352+P338, P315
Aquatic Acute	3	H402	P273
Flammable Liquid	4	H227	P210, P221, P284, P370+P378
Carcinogenicity	2	H350, H373	P301+P310
Reproductive Toxicity	1B	H360	P308+P313, P501

**2.2 Label Elements HCS 2012 (29 CFR 1910)**

**PICTOGRAMS**



**Signal Word:** WARNING

**Hazard Statements:**

Hazard #	Hazard Statement
H227	Combustible liquid
H302	Harmful if swallowed
H305	May be harmful if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H335	May cause respiratory irritation
H350	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H360	May damage fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H373	May cause damage to organs ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H402	Harmful to aquatic life

**Precautionary Statements:**

Precautionary #	Precautionary Statement
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P221	Take any precaution to avoid mixing with combustibles.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P362+P352	IF ON SKIN (or hair):Take off contaminated clothing. Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P352+P338	IF IN EYES: Wash with plenty of water/Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P314	Get medical advice/attention if you feel unwell.
P315	Get immediate medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use appropriate media for Extinction.
P501	Dispose of contents/container according to federal, state & local regulations.

## 2.3 Hazards Not Otherwise Classified (HNOC): Other Information

### 3. COMPOSITION/INFORMATION ON MIXTURES

#### Hazardous Components

	CAS number	%	Trade secret
Petroleum Solvent	64742-94-5	15-20	*
1-Methyl-2-pyrrolidinone	872-50-4	<5.0	*
Orange Terpene	5989-27-5	5-10	*
Balance	Trade secret	Balance	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.  
Remove contaminated clothing.

##### If inhaled

If breathed in, move person to fresh air. If not breathing, give artificial respiration.  
Consult a physician.

##### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Wash clothes off before reuse. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

##### If swallowed

Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed:

No data available.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media:

Combustible material. In case of fire use water fog, dry chemical, CO<sub>2</sub>, or "alcohol foam".

## **5.2 Special hazards arising from the substance or mixture:**

Carbon dioxide.

## **5.3 Advice for firefighters:**

If evacuation of personnel is necessary, evacuate to an upwind area. Use protective clothing and NIOSH-approved breathing. Avoid water in straight hose streams. Will scatter and spread fire.

## **5.4 Further information:**

Keep containers and surroundings cool with water spray

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Wear appropriate PPE. Evacuate the area and eliminate all sources of ignition. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Avoid run off to waterways or storm drains.

### **6.2 Environmental precautions:**

Do not let product enter waterways or storm drains. Prevent further leakage or spillage if safe to do so.

### **6.3 Methods and materials for containment and cleaning up:**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local, state and federal regulations. Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections:**

For disposal see section 13.

## **7. HANDLING AND STORAGE**

### **7.1 Precautions for safe handling:**

Keep away from heat and sources of ignition. Protect against physical damage. Isolate from incompatible substances. Equipment should be electrically grounded. Empty drums contain residue (vapors, liquid) which may be hazardous. Observe all warning and precautions listed for this product in section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a dry and well-ventilated place at ambient temperatures. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### **7.3 Regulatory Requirements: N/A**

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering controls:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

**Ventilation Control:** Provide adequate ventilation to control airborne concentration. In case of insufficient ventilation, wear suitable respiratory equipment.

**Administrative controls:** Educate and train employees in safe use of this product. Follow all label warnings and data sheet instructions.

**Personal Protection:** As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard assessment of all workplaces to determine the need for proper protective equipment for each employee.

**Eye Protection:** Close fitting safety goggles. Face Protection shield if needed.

**Skin and Body Protection:** Wear protective gloves and protective clothing.

**Respiratory Protection:** If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) Appearance Form: clear liquid
- b) Odor: solvent
- c) Odor Threshold: Not Determined.
- d) pH: not applicable
- e) Melting point/freezing point: No data available
- f) Boiling point: > 212 °F
- g) Flash point: > 120 °F
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): Not applicable
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapor pressure: No data available
- l) Vapor density: No data available
- m) Relative density(Water =1): 0.87 at 25 °C (77 °F)
- n) Water solubility: Forms a milky while emulsion
- o) Auto-ignition temperature: No data available
- p) Decomposition temperature: No data available
- q) Viscosity: Water thin
- r) Explosive properties: No data available
- s) Oxidizing properties: No data available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** No data available

**10.2 Chemical stability:** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions:** No data available

**10.4 Conditions to avoid:** High heat, sparks, flames, contact with incompatible materials.

**10.5 Incompatible materials:** Strong oxidizing agents, acids, aldehydes, isocyanates.

**10.6 Hazardous decomposition products:** No data available

**10.7 Other decomposition products:** No data available

**10.8 Other Information: In the event of fire:** See section 5

## **11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

### **Product Information:**

Inhalation: No data available

Ingestion: Harmful if swallowed

Eyes: Causes irritation and possible damage if left untreated.

Skin: Causes irritation with prolonged contact. Skin contact may aggravate an existing dermatitis condition.

**Germ cell mutagenicity:** No data available

**Carcinogenicity:** No data available

**Reproductive toxicity:** Damage to fetus possible.

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

**Additional Information:** No data available

## **12. ECOLOGICAL INFORMATION**

**12.1 Toxicity:** No data available

**12.2 Persistence and Degradability:** No data available

**12.3 Bioaccumulative Potential:** No data available

**12.4 Mobility in Soil:** No data available

**12.5 Other Adverse Ecological Effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## **13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Method:** If possible, recover product for intended use.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Empty Container Precautions:** No data available.

**Contaminated packaging:** Dispose of as unused product. Do not reuse container.

## **14. TRANSPORT INFORMATION**

**DOT Classification:**

**DOT Information: NA 1993**, Combustible Liquid, n.o.s.. This product is regulated as A hazardous material according to the Department of Transportation only in Bulk quantities (greater than 119 gallons per package).

**Important Note:** *Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*

## 15. REGULATORY INFORMATION

This listing is to highlight federal level regulations of the product. Individual states, and other nations may have further regulations not listed below.

### Classification of Mixture:

#### US Federal Regulations:

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**California Proposition 65:** This product does contain a chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

	CAS number	%
Ethylene Oxide	64742-94-5	<0.01
1-Methyl-2-pyrrolidinone	872-50-4	<5.0

#### US State Right-to-Know Regulations:

Chemical Name	PA	MA	NJ
Petroleum Solvent 64742-9-5	X	X	X
1-Methyl-2-pyrrolidinone (872-50-4)	X	X	X

## 16. OTHER INFORMATION

**HMIS® Hazard Ratings:**

HEALTH	1
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	B*

4 = EXTREME / 3 = HIGH / 2 = MODERATE / 1 = SLIGHT / 0 = INSIGNIFICANT

\*B: Chemical resistant gloves & goggles.

Disclaimer: The information herein is given in good faith, but no warranty, either expressed or implied is made. Final determination of the 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 be sure or guarantee these are the only hazards which exist.

**END OF SDS**