



Safety Data Sheet

acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

1 Identification

- **Product identifier**
- **Trade name:** Enviro Gold #816/18.54A Saponifier
- **Article number:** DM-1854A
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Envirosense, Inc.
10061 Bubb Road #200
Cupertino, CA 95014 USA
Phone: (408) 213-2291
Fax: (408) 213-2396
Email: info@envirosense-inc.com
Web: www.envirosense-inc.com
Product Information: (408) 213-2291
- **Information department:** Product safety department
- **Emergency telephone number:**
(800) 424-9300 (U.S. and North America)
(703) 527-3387 (outside U.S. collect calls accepted)
CCN#: 827152

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

- **Additional information:** Aquatic Acute 3 H402 Harmful to aquatic life

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger

(Contd. on page 2)



Safety Data Sheet

acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 1)

· **Hazard-determining components of labeling:**

Monoethanolamine

Proprietary

· **Hazard statements**

Harmful if swallowed or if inhaled.

Causes serious eye damage.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

141-43-5	Monoethanolamine	40-60%
	Proprietary	0-25%

(Contd. on page 3)



Safety Data Sheet

acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 2)

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of 1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-aid measures

Description of first aid measures**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, seek medical advice.

After eye contact:

Rinse opened eyes for at least 15 minutes under running water. If easy to do so, remove contact lenses if worn. Seek immediate medical advice.

After swallowing:

Rinse out mouth and drink plenty of water or milk. Do not induce vomiting without medical advice. If vomiting does occur, repeat fluid administration. Seek immediate medical advice.

Information for doctor:

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Product flash is above 200F, but will burn if ignited. Treat as an oil fire.

Special hazards arising from the substance or mixture No further relevant information available.**Advice for firefighters****Protective equipment:**

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with the skin or eyes.

US

(Contd. on page 4)



Safety Data Sheet

acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 3)

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

- Avoid contact with the eyes, skin and clothing.
- Ensure adequate ventilation.
- Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

- Do not allow to enter sewers/ surface or ground water.
- Dilute with plenty of water.

· **Methods and material for containment and cleaning up:**

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Use neutralizing agent.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.

· **Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

141-43-5	Monoethanolamine	6 ppm
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· **PAC-2:**

141-43-5	Monoethanolamine	170 ppm
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· **PAC-3:**

141-43-5	Monoethanolamine	1,000 ppm
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7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **Specific end use(s)** No further relevant information available.

Safety Data Sheet acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 4)

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· **Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

141-43-5 Monoethanolamine

PEL	Long-term value: 6 mg/m ³ , 3 ppm
REL	Short-term value: 15 mg/m ³ , 6 ppm Long-term value: 8 mg/m ³ , 3 ppm
TLV	Short-term value: 15 mg/m ³ , 6 ppm Long-term value: 7.5 mg/m ³ , 3 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 5)

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**



Protective Work Clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Liquid
· Color:	Clear, colorless
· Odor:	Amine-like
· Odor threshold:	Not determined.

· **pH-value at 20 °C (68 °F):** 11.5

· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.

· **Flash point:** 95.5 °C (203.9 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· Lower:	2.5 Vol %
· Upper:	17 Vol %

· **Vapor pressure at 20 °C (68 °F):** not determined

· **Density (Specific Gravity) at 20 °C (68 °F):** 1 g/cm³ (8.345 lbs/gal)

· Bulk density:	1,031 kg/m ³
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.

(Contd. on page 7)



Safety Data Sheet acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 6)

· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	Proprietary %
VOC content:	Proprietary %
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Oral	LD50	2,440 mg/kg (rat)
Dermal	LD50	1,887 mg/kg (rabbit)
Inhalative	LC50/4 h	8.03 mg/l

141-43-5 Monoethanolamine

Oral	LD50	2,050 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

(Contd. on page 8)



Safety Data Sheet

acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 7)

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Irritant

· Carcinogenic categories**· IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability:** No further relevant information available.

· Behavior in environmental systems:

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· Additional ecological information:**· General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects:** No further relevant information available.

13 Disposal considerations

· Waste treatment methods**· Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

(Contd. on page 9)



Safety Data Sheet acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 8)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	non regulated
· UN proper shipping name	non regulated
· Transport hazard class(es)	non regulated
· Packing group	non regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· Section 355 (extremely hazardous substances):	None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	141-43-5 Monoethanolamine	ACTIVE
· Hazardous Air Pollutants	None of the ingredients is listed.	
· Proposition 65		
· Chemicals known to cause cancer:	None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	None of the ingredients is listed.	

(Contd. on page 10)



Safety Data Sheet

acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 9)

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).**· Hazard pictograms**

GHS05 GHS07

· Signal word Danger**· Hazard-determining components of labeling:**

Monoethanolamine

Proprietary

· Hazard statements

Harmful if swallowed or if inhaled.

Causes serious eye damage.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Department issuing SDS: Environment protection department.

(Contd. on page 11)



Safety Data Sheet

acc. to OSHA HCS

Printing date 05/02/2019

Reviewed on 12/1/2023

Trade name: Enviro Gold #816/18.54A Saponifier

(Contd. of page 10)

- **Contact:** -
- **Date of preparation / last revision** 05/02/2019 / -
- **Abbreviations and acronyms:**
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - NIOSH: National Institute for Occupational Safety
 - OSHA: Occupational Safety & Health
 - TLV: Threshold Limit Value
 - PEL: Permissible Exposure Limit
 - REL: Recommended Exposure Limit
 - Acute Tox. 4: Acute toxicity – Category 4
 - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- *** Data compared to the previous version altered.**