

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

### 1 Identification

- **Product identifier**
- **Trade name:** Ryonet Ink Degradant
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Ryonet Corp  
12303 NE 56th St  
Vancouver, WA 96882  
Toll-free: 1-800-314-6390  
International: 1-360-576-7188  
Fax: 1-360-546-1454
- **Information department:** Product safety department
- **Emergency telephone number:** INFOTRAC 1-800-535-5053

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

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

- **Hazard pictograms**



GHS02



GHS05



GHS07

- **Signal word** Danger

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

Polyethylene glycol nonyl phenyl ethers  
citrus terpene

- **Hazard statements**

H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.

(Contd. on page 2)

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

**Trade name: Ryonet Ink Degradant**

(Contd. of page 1)

**· Precautionary statements**

- P210 *Keep away from heat/sparks/open flames/hot surfaces. No smoking.*
- P241 *Use explosion-proof electrical/ventilating/lighting/equipment.*
- P261 *Avoid breathing dust/fume/gas/mist/vapors/spray*
- P280 *Wear protective gloves / eye protection / face protection.*
- P240 *Ground/bond container and receiving equipment.*
- P233 *Keep container tightly closed.*
- P242 *Use only non-sparking tools.*
- P243 *Take precautionary measures against static discharge.*
- P264 *Wash thoroughly after handling.*
- P272 *Contaminated work clothing must not be allowed out of the workplace.*
- P303+P361+P353 *If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
- P305+P351+P338 *If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P321 *Specific treatment (see on this label).*
- P363 *Wash contaminated clothing before reuse.*
- P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*
- P337+P313 *If eye irritation persists: Get medical advice/attention.*
- P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.*
- P362+P364 *Take off contaminated clothing and wash it before reuse.*
- P403+P235 *Store in a well-ventilated place. Keep cool.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· Classification system:**

**· NFPA ratings (scale 0 - 4)**



**· HMIS-ratings (scale 0 - 4)**



**· 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:**

127087-87-0	Polyethylene glycol nonyl phenyl ethers	10-20%
94266-47-4	citrus terpene	1-10%

(Contd. on page 3)

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

**Trade name: Ryonet Ink Degradant**

(Contd. of page 2)

34590-94-8 (2-methoxymethylethoxy)propanol

1-10%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
For large spills: Do not allow to enter sewers/ surface or ground 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.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

**Trade name: Ryonet Ink Degradant**

(Contd. of page 3)

- Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **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 other constituents have no known exposure limits.

#### 34590-94-8 (2-methoxymethylethoxy)propanol

PEL	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm Skin

- **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 skin.  
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.

(Contd. on page 5)

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

**Trade name: Ryonet Ink Degradant**

(Contd. of page 4)

- 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.*
  - **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Fluid
  - Color:** According to product specification
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range:** Undetermined.
  - Boiling point/Boiling range:** 99 °C (210 °F)
- **Flash point:** 58 °C (136 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 237 °C (459 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Not determined.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)
- **Density at 20 °C (68 °F):** 0.996 g/cm<sup>3</sup> (8.312 lbs/gal)
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Fully miscible.

(Contd. on page 6)

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

**Trade name: Ryonet Ink Degradant**

(Contd. of page 5)

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
- **VOC content:** 190.0 g/l / 1.59 lb/gl
- **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:**

**94266-47-4 citrus terpene**

Oral	LD50	>5000 mg/kg (rabbit)
Dermal	LD50	>5000 mg/kg (rabbit)

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
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.

(Contd. on page 7)

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

Trade name: Ryonet Ink Degradant

(Contd. of page 6)

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

**94266-47-4 citrus terpene**

EC50 (static) 0.36 mg/kg (daphnia)

· **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:**

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

· **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:**

Dispose of content and/or container in accordance with local, regional, national and/or international regulations.

· **Uncleaned packagings:**

· **Recommendation:**

Dispose of content and/or container in accordance with local, regional, national and/or international regulations

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· **UN-Number**

· **DOT**

NOT DOT REGULATED FOR DOMESTIC GROUND  
TRANSPORTATION

· **IMDG, IATA**

UN1993

· **UN proper shipping name**

· **IMDG**

· **IATA**

FLAMMABLE LIQUID, N.O.S. (citrus terpene)

Flammable liquid, n.o.s. (citrus terpene)

· **Transport hazard class(es)**

· **IMDG, IATA**



· **Class**

3 Flammable liquids

· **Label**

3

(Contd. on page 8)

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

**Trade name: Ryonet Ink Degradant**

(Contd. of page 7)

· <b>Packing group</b> · <b>IMDG, IATA</b>	<i>III</i>
· <b>Environmental hazards:</b>	<i>Not applicable.</i>
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	<i>Warning: Flammable liquids</i> <i>30</i> <i>F-E, S-E</i> <i>A</i>
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	<i>5L</i> <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>UN "Model Regulation":</b>	<i>UN 1993 FLAMMABLE LIQUIDS, N.O.S., 3, III</i>

### 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):**

*All ingredients are 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.*

· **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.*

(Contd. on page 9)



## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

**Trade name: Ryonet Ink Degradant**

(Contd. of page 8)

· **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**



GHS02 GHS05 GHS07

· **Signal word** *Danger*

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

Polyethylene glycol nonyl phenyl ethers  
citrus terpene

· **Hazard statements**

H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 Wear protective gloves / eye protection / face protection.  
P240 Ground/bond container and receiving equipment.  
P233 Keep container tightly closed.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P363 Wash contaminated clothing before reuse.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.

(Contd. on page 10)

## Safety Data Sheet acc. to OSHA HCS

Printing date 02/24/2016

Reviewed on 02/24/2016

**Trade name: Ryonet Ink Degradant**

(Contd. of page 9)

**· Contact: H.S.D****· Date of preparation / last revision 02/24/2016 / -****· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*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*

*Flam. Liq. 3: Flammable liquids, Hazard Category 3*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1*

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*