

# Material Safety Data Sheet



## Section 1. Product and Company Identification

<b>Product Name</b>	<b>EUS26-15 Insect Repellent Spray</b>	<b>Product Code</b>	EUS26-15
<b>Manufacturer</b>	EMD Chemicals Inc. Pigments Division 7 Skyline Drive Hawthorne, NY 10532	<b>Effective Date</b>	1/26/2006
		<b>Print Date</b>	1/26/2006
<b>For More Information Call</b> (914) 592-4660 M-F, 9AM-4:30 PM EST	<b>In Case of Emergency Call</b> 800-424-9300 CHEMTREC (USA) 613-996-6666 (Canada) 24 Hours/Day: 7 Days/Week		
<b>Synonym</b>	Not available.		
<b>Material Uses</b>	Insecticide.		
<b>Chemical Family</b>	Organic		

## Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Denatured Alcohol	61116-08-3	35
WATER	7732-18-5	31.5
3-[N-Butyl-N-acetyl]-aminopropionic acid ethyl ester	52304-36-6	20
POLYETHYLENE GLYCOL 400	25322-68-3	9
acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	25086-89-9	2
POLYSORBATE 20	9005-64-5	1.5
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-octadecyl-.omega.-hydroxy-	25231-21-4	1

## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Liquid. (Slightly yellowish liquid with alcoholic odor)
<b>Emergency Overview</b>	HARMFUL IF SWALLOWED. FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTENTS UNDER PRESSURE. DO NOT STORE AT TEMPERATURES ABOVE 120° F
<b>Routes of Entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential Acute Health Effects</b>	<i>Eyes</i> May be hazardous in case of eye contact (irritant). <i>Skin</i> May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. <i>Inhalation</i> May be hazardous in case of inhalation (lung irritant). <i>Ingestion</i> Hazardous in case of ingestion.
<b>Potential Chronic Health Effects</b>	<i>Carcinogenic Effects</i> This material is not known to cause cancer in animals or humans. Additional information See Toxicological Information (section 11)

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Medical Conditions  
Aggravated by  
Overexposure:

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

#### **Section 4. First Aid Measures**

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	NO known EFFECT according to our database.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

#### **Section 5. Fire Fighting Measures**

Flammability of the Product	Product will burn.
Auto-ignition Temperature	Not available.
Flash Points	Closed cup: 25°C (77°F).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...).
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames, sparks and static discharge, of shocks, of heat.
Explosion Hazards in Presence of Various Substances	<b>Risks of explosion of the product in presence of static discharge:</b> Highly flammable in presence of open flames, sparks and static discharge.  <b>Risks of explosion of the product in presence of mechanical impact:</b> Highly flammable in presence of shocks.
Fire Fighting Media and Instructions	In case of fire, use water spray (fog), foam, dry chemical, or CO <sub>2</sub> .
Protective Clothing (Fire)	Wear self-contained breathing apparatus and full protective clothing.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

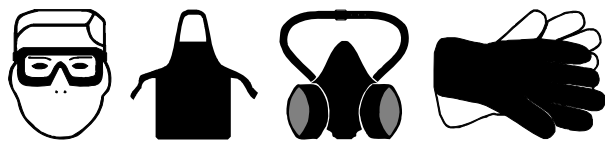
#### **Section 6. Accidental Release Measures**

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.
Spill Kit Information	No specific spill kit required for this product.

## Section 7. Handling and Storage

<b>Handling</b>	Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. <b>DO NOT STORE AT TEMPERATURES ABOVE 120° F.</b>
<b>Storage</b>	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

## Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Personal Protection</b>	
	<i>Eyes</i> Splash goggles.
	<i>Body</i> Synthetic apron.
	<i>Respiratory</i> Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
	<i>Hands</i> Impervious gloves.
	<i>Feet</i> Not applicable.
<b>Protective Clothing (Pictograms)</b>	
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Synthetic apron. Nitrile gloves. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Product Name	Exposure Limits
Denatured Alcohol	Not available.
WATER	Not available.
3-[N-Butyl-N-acetyl]-aminopropionic acid ethyl ester	Not available.
POLYETHYLENE GLYCOL 400	<b>AIHA WEEL (United States, 2004).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Aerosol <b>MAK-Werte Liste (Germany, 7/2003).</b> Spitzenbegrenzung: 8000 mg/m <sup>3</sup> 15 minute(s). Form: Inhalable fraction TWA: 1000 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction <b>TRGS900 MAK (Germany, 9/2003).</b> Spitzenbegrenzung: 4000 mg/m <sup>3</sup> 15 minute(s). Form: Inhalable fraction TWA: 1000 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction <b>Nationale MAC-lijst (Netherlands, 12/2004).</b> TGG: 1000 mg/m <sup>3</sup> 8 hour(s). Form: All forms <b>Nariadenie vlády Slovenskej republiky (Slovakia, 1/2002).</b> PEAK: 2000 mg/m <sup>3</sup> 3 times per shift, 60 minute(s). Form: All forms TWA: 1000 mg/m <sup>3</sup> 8 hour(s). Form: All forms Not available.
acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	Not available.
POLYSORBATE 20	Not available.
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-octadecyl-.omega.-hydroxy-	Not available.

**Section 9. Physical and Chemical Properties**

Odor	Alcohol like.
Color	Slightly Yellowish.
Physical State and Appearance	Liquid. (Slightly yellowish liquid with alcoholic odor)
Molecular Weight	Not applicable.
Molecular Formula	Not applicable.
pH	6.7 [Neutral.]
Boiling/Condensation Point	The lowest known value is 99.85°C (211.7°F) (WATER).
Melting/Freezing Point	May start to solidify at -0.15°C (31.7°F) based on data for: WATER.
Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	0.36 (WATER) compared to (n-BUTYL ACETATE=1)
LogK <sub>ow</sub>	Not available.
Solubility	Partially soluble in water.

**Section 10. Stability and Reactivity**

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

**Section 11. Toxicological Information**

RTECS Number:	Denatured Alcohol	Not available.
	Water	ZC0110000
	Ethyl Butylacetylaminopropionate	Not available.
	Polyethylene Glycol 400	TQ3500000, TQ3520000, TQ3560000, TQ3580000, TQ3600000, TQ3610000, TQ3620000, TQ3630000, TQ3650000, TQ3675000, TQ3700000, TQ3800000, TQ3850000, TQ4025000, TQ4026000, TQ4027000, TQ4028000, TQ4030000, TQ4040000, TQ4041000, TQ4050000, TQ4070000, TQ4100000, TQ4105000, TQ4110000, TQ4950000, TQ5090000, TR1579850, ZD2465300
	PVP/VA Copolymer	AH3539000
	Polyoxyethylene (20) Sorbitan Monolaurate	TR7400000

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	PEG-15 Stearyl Ether	Not available.
Toxicity	Acute oral toxicity (LD <sub>50</sub> ): 600 mg/kg [Rat]. (POLYETHYLENE GLYCOL 400).	
Chronic Effects on Humans	Slightly hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of ingestion. <b>CARCINOGENIC EFFECTS:</b> Not available. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.	
Acute Effects on Humans	May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May be hazardous in case of inhalation (lung irritant). Hazardous in case of ingestion.	
Synergetic Products (Toxicologically)	Not available.	
Irritancy	Draize Test: Not available.	
Sensitization	Caution - preparation not yet fully tested.	
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.	
Toxicity to Reproductive System	Not available.	
Teratogenic Effects	Not available.	
Mutagenic Effects	Not available.	



## Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.

## Section 13. Disposal Considerations

EPA Waste Number	Type: Hazardous chemical waste. Classification: D001
Treatment	Dispose of according to all federal, state and local regulations.

## Section 14. Transport Information

DOT Classification	<b>Proper shipping name:</b> Flammable liquid, n.o.s. (Denatured Alcohol) <b>Hazard class:</b> 3 <b>UN number:</b> UN1993 <b>Packing Group:</b> II <b>ERG (Emergency Response Guide) No.:</b> 128 <b>Additional information:</b>	
TDG Classification	<b>Proper shipping name:</b> Flammable liquid, n.o.s. (Denatured Alcohol) <b>Hazard class:</b> 3 <b>UN number:</b> UN1993 <b>Packing Group:</b> II	

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**Additional information:** No additional remark.

**IMO/IMDG  
Classification**

**Proper shipping name:** Flammable liquid, n.o.s.  
(Denatured Alcohol)

**Hazard class:** 3

**UN number:** UN1993

**Packing Group:** II

**Additional information:** No additional remark.

**ICAO/IATA  
Classification**

**Proper shipping name:** Flammable liquid, n.o.s.  
(Denatured Alcohol)

**Hazard class:** 3

**UN number:** UN1993

**Packing Group:** II

**Additional information:** No additional remark.

### Section 15. Regulatory Information

**U.S. Federal Regulations**

TSCA 8(b) inventory: For Research & Development Use Only.  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.  
SARA 313 Form R Reporting Requirements- No products were found.  
SARA 313 Supplier Notification- No products were found.  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean air act (CAA) 112 accidental release prevention: No products were found.  
Clean air act (CAA) 112 regulated flammable substances: No products were found.  
Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)**

Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).  
Class D-2B: Material causing other toxic effects (TOXIC).  
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

CEPA DSL: For Research & Development Use Only.

**International Regulations**

**EINECS**

Denatured Alcohol	Not available.
WATER	231-791-2
3-[N-Butyl-N-acetyl]-aminopropionic acid ethyl ester	257-835-0
POLYETHYLENE GLYCOL 400	500-038-2
acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone	Not available.
POLYSORBATE 20	500-018-3
poly[oxy(methyl-1,2-ethanediyl)], .alpha.-octadecyl-.omega.-hydroxy-available.	Not

**DSCL (EEC)**

R10- Flammable.

**International Lists**

For Research & Development Use Only.

**State Regulations**

No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: No products were found.

**Section 16. Other Information****Hazardous Material  
Information System  
(U.S.A.)**

Health	*	2
Fire Hazard		3
Reactivity		0
Personal Protection		J

**National Fire  
Protection  
Association  
(U.S.A.)****Other Special  
Considerations** Not available.**Changed Since Last  
Revision****Notice to Reader**

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