

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/16/2017

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Encapture
Product code : 40113

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.3. Details of the supplier of the safety data sheet

CaroVail 4180 State Rte. 29 Salem, NY 12865 T 1-518-854-9785

### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300 ChemTrec

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **GHS-US** classification

Flam. Liq. 4 H227 Skin Irrit. 2 H315

Full text of H-statements: see section 16

### 2.2. Label elements

## **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H227 - Combustible liquid H315 - Causes skin irritation

Precautionary statements (GHS-US) : P210 - Keep away from Keep away from sparks, flames, heat or hot surfaces. - No smoking

P264 - Wash hands, forearms and face thoroughly after handling

P280 - Wear Eye protection, Face protection, Skin protection. Clothing protection

P302+P352 - If on skin: Wash with plenty of water

P321 - Specific treatment (see additional precautions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P370+P378 - In case of fire: Use CO2, Dry powder, Sand, Foam to extinguish

P403+P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to a licensed hazardous waste facility in accordance with

state and local agencies

## 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS-US)

Not applicable

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substance

Not applicable

### 3.2. Mixture

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Name	Product identifier	%	GHS-US classification
dimethyl sulfoxide	(CAS No) 67-68-5	30 - 80	Flam. Liq. 4, H227
2(2-aminoethoxy)ethanol	(CAS No) 929-06-6	0.1 - 5	Acute Tox. 4 (Dermal), H312

Full text of H-statements: see section 16

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Explosion hazard : May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking.

## 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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## **SECTION 7: Handling and storage**

## Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour. No open flames. No smoking.

### Conditions for safe storage, including any incompatibilities

: Keep only in original container in a cool well ventilated area. Keep container closed when not in Storage conditions

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

: 25 (5 - 42) °C Storage temperature

## Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

Encapture	
ACGIH	Not applicable
OSHA	Not applicable
dimethyl sulfoxide (67-68-5)	

ACGIH	Not applicable
OSHA	Not applicable

## 2(2-aminoethoxy)ethanol (929-06-6)

ACGIH	Not applicable
OSHA	Not applicable

## **Exposure controls**

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection Chemical goggles or safety glasses.

Respiratory protection Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

Physical state : Liquid Colour Green

: Characteristic odour Odour Odour threshold : No data available : >= 7.5 (7 - 9) рΗ Melting point No data available

Freezing point <= 0 °C : >= 189 °C Boiling point Flash point : 107 °C

Relative evaporation rate (butylacetate=1) : No data available : No data available Flammability (solid, gas) : No data available Explosive limits : No data available Explosive properties Oxidising properties : No data available Vapour pressure : No data available Relative density : No data available

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Relative vapour density at 20 °C : No data available Density : 1.159 g/ml Solubility Soluble in water.

Water: Solubility in water of component(s) of the mixture :

• dimethyl sulfoxide: 100 g/100ml (25 °C) • cyanoguanidine: 3.2 g/100ml

Log Pow : No data available No data available Log Kow : No data available Auto-ignition temperature Decomposition temperature No data available Viscosity No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available

### Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### **Chemical stability** 10.2.

Not established. Combustible liquid.

## Possibility of hazardous reactions

Not established.

#### 10.4. **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

## Incompatible materials

Strong acids. Strong bases.

## **Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity : Not classified

dimethyl sulfoxide (67-68-5)	
LD50 dermal rat	40000 mg/kg bodyweight (Rat; Experimental value)
ATE US (dermal)	40000.000 mg/kg bodyweight
2(2-aminoethoxy)ethanol (929-06-6)	
LD50 oral rat	3000 mg/kg (Rat)
LD50 dermal rabbit	1250 mg/kg (Rabbit)
ATE US (oral)	3000.000 mg/kg bodyweight
ATE US (dermal)	1250.000 mg/kg bodyweight
Skin corrosion/irritation	· Causes skin irritation

pH: >= 7.5 (7 - 9): Not classified

Serious eye damage/irritation pH: >= 7.5 (7 - 9)

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity

: Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified

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Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general

: Not classified as dangerous for the environment according to the criteria of Directive 67/548/EEC. The product is not considered harmful to aquatic organisms or to cause long-term

adverse effects in the environment.

## 12.2. Persistence and degradability

Encapture		
Persistence and degradability	Biodegradable in the soil. Not established.	
dimethyl sulfoxide (67-68-5)		
Persistence and degradability	Not readily biodegradable in water. Photolysis in the air.	
2(2-aminoethoxy)ethanol (929-06-6)		
Persistence and degradability	Biodegradability in water: no data available.	

## 12.3. Bioaccumulative potential

Encapture		
Bioaccumulative potential	Not established.	
dimethyl sulfoxide (67-68-5)		
BCF fish 1	< 0.4 (BCF)	
Log Pow	-1.35 (Experimental value; 20 °C)	
Bioaccumulative potential	Bioaccumulation: not applicable.	
2(2-aminoethoxy)ethanol (929-06-6)		
Bioaccumulative potential	No bioaccumulation data available.	

## 12.4. Mobility in soil

Encapture		
Ecology - soil	Not toxic to plants.	
dimethyl sulfoxide (67-68-5)		
Surface tension	0.0435 N/m (20 °C; 10 g/l)	
Log Koc	Koc,SRC PCKOCWIN v1.66; 4.41; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0.64; Calculated value	

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : No other effects known. Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste disposal recommendations

: Dispose of contents/containers in hazardous or special waste collection point, an approved disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection site in accordance with local, regional and/or international regulation, except for empty clean containers which can be disposed of as non hazardous waste.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT Not regulated for transport

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### **Additional information**

Other information : No supplementary information available.

### **ADR**

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### dimethyl sulfoxide (67-68-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 2(2-aminoethoxy)ethanol (929-06-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

## **CANADA**

Encapture	
WHMIS Classification	This product does not require hazardous labeling or symbols

### **EU-Regulations**

No additional information available

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

## Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

## **National regulations**

No additional information available

### 15.3. US State regulations

## dimethyl sulfoxide (67-68-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

## 2(2-aminoethoxy)ethanol (929-06-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

## **SECTION 16: Other information**

Revision date : 02/16/2017
Other information : None.

### Full text of H-statements:

at of the date monte.		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Flam. Liq. 4	Flammable liquids, Category 4	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H227	Combustible liquid	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
	Flam. Liq. 4 Skin Irrit. 2 H227 H312	

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NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

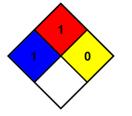
injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.

NFPA specific hazard : None



HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : C

C - Safety glasses, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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