

## Safety Data Sheet

### SolSafe® 245

#### 1. Identification

##### PRODUCT IDENTIFIER

**Product Identity** SolSafe 245  
**Alternate Names** SolSafe 245 Aerosol

##### RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**Intended use** See Technical Data Sheet.  
**Application Method** See Technical Data Sheet.

##### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Company Name** BioChem Systems, Inc  
P.O Box 8098  
The Woodlands, TX 77387-8098  
**Contact information** 800-777-7870  
**EMERGENCY TELEPHONE NUMBER** PERS: (800) 633-8253

#### 2. Hazard(s) Identification

##### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Flam. Aerosol 1;H222 Extremely flammable aerosol.  
Press. Gas;H280 Contains gas under pressure; may explode if heated.

##### LABEL ELEMENTS

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.

**[Prevention]:**

## Safety Data Sheet

### SolSafe® 245

No GHS prevention statements

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

**[Response]:**

No GHS response statements

**[Storage]:**

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.

**[Disposal]:**

No GHS disposal statements

### 3. Composition/Information on Ingredients

#### MIXTURES

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Petroleum distillates, hydrotreated light CAS Number: Proprietary	50 - 75	Asp. Tox. 1;H304	[1]
(2-methoxymethylethoxy)propanol CAS Number: Proprietary	25 - 50	Not Classified	[1][2]
Petroleum gases, liquefied, sweetened CAS Number: 0068476-86-8	1.0 - 10	Press. Gas;H280 Flam. Gas 1;H220	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 4. First Aid Measures

#### DESCRIPTION OF FIRST AID MEASURES

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

## Safety Data Sheet

### SolSafe® 245

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### **MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

**Overview** Primary routes of entry: eyes, skin  
Effect of acute and chronic overexposure: Acute: Eyes: Liquid may cause eye irritation.  
Skin: Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort. May cause dermatitis and aggravate existing skin conditions.  
Respiratory System: High vapor concentration may cause headaches and irritation to the respiratory system.  
Ingestion: May irritate stomach and intestines. If swallowed may be aspirated into lungs resulting in pulmonary edema and chemical pneumonitis. Ingestion may cause burns to the digestive tract.  
Chronic: Repeated skin contact may cause a persistent irritation or dermatitis.  
Carcinogenic data: This product is not currently listed as a carcinogen by NTP, OSHA, ACGIH, or IARC.

## 5. Fire-Fighting Measures

#### **FLAMMABILITY**

**Flammability** Flash Point: Flammable

#### **EXTINGUISHING MEDIA**

Dry chemical and Carbon Dioxide

#### **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Hazardous decomposition: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

#### **ADVICE FOR FIRE-FIGHTERS**

Use self-contained breathing apparatus and full protective clothing (Bunker gear).

## 6. Accidental Release Measures

#### **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Put on appropriate personal protective equipment (see section 8).

#### **ENVIRONMENTAL PRECAUTIONS**

Do not allow spills to enter drains or waterways.

## Safety Data Sheet

### SolSafe® 245

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Avoid use of any ignition source near spill.

## 7. Handling and Storage

#### PRECAUTIONS FOR SAFE HANDLING

See section 2 for further details. - [Prevention]:

#### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Strong oxidizing agents and acids.

Store in original container in well ventilated areas at temperatures below 140F. Store in closed containers away from heat or sources of ignition and oxidizing materials. Protect against physical damage to containers.

See section 2 for further details. - [Storage]:

## 8. Exposure Controls and Personal Protection

#### CONTROL PARAMETERS

##### Exposure

CAS No.	Ingredient	Source	Value
Proprietary	(2-methoxymethylethoxy)propanol	OSHA	TWA 100 ppm (600 mg/m3) [skin]
		ACGIH	TWA: 100 ppm STEL: 150 ppm Skin
		NIOSH	TWA 100 ppm (600 mg/m3) ST 150 ppm (900 mg/m3) [skin]
		Supplier	No Established Limit

##### Carcinogen Data

No established chemicals at levels which require reporting for this product.

#### EXPOSURE CONTROLS

##### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

## Safety Data Sheet

### SolSafe® 245

<b>Eyes</b>	Protective safety glasses recommended
<b>Skin</b>	Impervious gloves are recommended.
<b>Engineering Controls</b>	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
<b>Other Work Practices</b>	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and Chemical Properties

<b>Appearance</b>	Colorless Aerosol
<b>Odor</b>	Slight hydrocarbon
<b>Odor threshold</b>	Not Measured
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	Not Measured
<b>Initial boiling point and boiling range</b>	360F
<b>Flash Point</b>	Flammable
<b>Evaporation rate (Ether = 1)</b>	>1 (H <sub>2</sub> O=1)
<b>Flammability (solid, gas)</b>	Gas
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
<b>Vapor pressure (Pa)</b>	<1mm Hg @20C
<b>Vapor Density</b>	>1 (air=1)
<b>Specific Gravity</b>	0.8 @ 25C (H <sub>2</sub> O=1)
<b>Solubility in Water</b>	Negligible
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured

## 10. Stability and Reactivity

### REACTIVITY

Hazardous Polymerization will not occur.

## Safety Data Sheet

### SolSafe® 245

#### CHEMICAL STABILITY

Stable under normal circumstances.

#### POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

#### CONDITIONS TO AVOID

Excessive heat and open flame.

#### INCOMPATIBLE MATERIALS

Strong oxidizing agents and acids.

#### HAZARDOUS DECOMPOSITION PRODUCTS

High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

## 11. Toxicological Information

#### ACUTE TOXICITY

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Petroleum distillates, hydrotreated light - (Proprietary)	> 5,000.00, Rat - Category: NA	No data available	No data available	No data available	No data available
(2-methoxymethylethoxy)propanol - (Proprietary)	3,500.00, Rat - Category: 5	19,000.00, Rabbit - Category: NA	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable

## Safety Data Sheet

### SolSafe® 245

Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological Information

### TOXICITY

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Petroleum distillates, hydrotreated light - (Proprietary)	45.00, Pimephales promelas	4,720.00, Dendronereides heteropoda	Not Available
(2-methoxymethylethoxy)propanol - (Proprietary)	10,000.00, Pimephales promelas	1,919.00, Daphnia magna	969.00 (72 hr), Algae

### PERSISTENCE AND DEGRADABILITY

There is no data available on the preparation itself.

### BIOACCUMULATIVE POTENTIAL

Not Measured

### MOBILITY IN SOIL

No data available.

### RESULTS OF PBT AND VPVB ASSESSMENT

This product contains no PBT/vPvB chemicals.

### OTHER ADVERSE EFFECTS

No data available.

## Safety Data Sheet

### SolSafe® 245

### 13. Disposal Considerations

#### WASTE TREATMENT METHODS

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

### 14. Transport Information

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>UN NUMBER</b>	Not Applicable	Not Regulated	Not Regulated
<b>UN PROPER SHIPPING NAME</b>	Not Regulated	Not Regulated	Not Regulated
<b>TRANSPORT HAZARD CLASS(ES)</b>	<b>DOT Hazard Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable
<b>PACKING GROUP</b>	Not Applicable	Not Applicable	Not Applicable

#### ENVIRONMENTAL HAZARDS

**IMDG** Marine Pollutant: No

#### SPECIAL PRECAUTIONS FOR USER

No further information

### 15. Regulatory Information

#### REGULATORY OVERVIEW

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

#### TOXIC SUBSTANCE CONTROL ACT (TSCA)

All components of this material are either listed or exempt from listing on the TSCA Inventory.

#### WHMIS CLASSIFICATION A F

#### NFPA/HMIS RATINGS



#### US EPA TIER II HAZARDS

**Fire:** No

**Sudden Release of Pressure:** Yes

**Reactive:** No

**Immediate (Acute):** No

**Delayed (Chronic):** No



## Safety Data Sheet

### SolSafe® 245

#### EPCRA 311/312 CHEMICALS AND RQS:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### EPCRA 302 EXTREMELY HAZARDOUS:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### EPCRA 313 TOXIC CHEMICALS:

(2-methoxymethylethoxy)propanol

#### PROPOSITION 65 - CARCINOGENS (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### PROPOSITION 65 - DEVELOPMENTAL TOXINS (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### PROPOSITION 65 - FEMALE REPRO TOXINS (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### PROPOSITION 65 - MALE REPRO TOXINS (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### NEW JERSEY RTK SUBSTANCES (>1%):

(2-methoxymethylethoxy)propanol

#### PENNSYLVANIA RTK SUBSTANCES (>1%):

(2-methoxymethylethoxy)propanol

## 16. Other Information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

End of Document