

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

### 1.1. Identification

Product form : Mixture  
Product name : ORGANIC SPOT REMOVER  
Product code : 7017

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

No additional information available

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

Brody Chemical  
6125 W. Double Eagle Cr.  
Salt Lake City, UT 84118 - USA  
T (801) 963-2436

### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

Eye Dam. 1 H318 - Causes serious eye damage

Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation  
H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P280 - Wear eye protection, protective gloves  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a doctor  
P102 - Keep out of reach of children  
P501 - Dispose of contents/container to in accordance with all regulations

### 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                                                                                                                                       |
|---------------------------------|--------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethylene glycol monobutyl ether | (CAS No) 109-86-4  | 2-5 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:vapour), H332 |

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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

- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : Slight irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Gastrointestinal complaints.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

- Fire hazard : Non combustible.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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### 7.2. Conditions for safe storage, including any incompatibilities

|                       |                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------|
| Storage conditions    | : Store in a well-ventilated place. Keep cool.                                                                 |
| Incompatible products | : Strong acids. Oxidizing agent.                                                                               |
| Storage area          | : Keep locked up. Keep only in the original container. Store in a cool area. Store in a well-ventilated place. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Ethylene glycol monobutyl ether (109-86-4) |                                     |                                                                                                       |
|--------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| ACGIH                                      | ACGIH TWA (ppm)                     | 0.1 ppm (2-Methoxyethanol (EGME); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH                                      | Remark (ACGIH)                      | Hematologic eff; repro eff                                                                            |
| OSHA                                       | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 80 mg/m <sup>3</sup>                                                                                  |
| OSHA                                       | OSHA PEL (TWA) (ppm)                | 25 ppm                                                                                                |

### 8.2. Exposure controls

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Appropriate engineering controls | : Ensure good ventilation of the work station.                              |
| Hand protection                  | : Protective gloves.                                                        |
| Eye protection                   | : Safety glasses.                                                           |
| Skin and body protection         | : Wear suitable protective clothing.                                        |
| Respiratory protection           | : In case of insufficient ventilation, wear suitable respiratory equipment. |
| Environmental exposure controls  | : Avoid release to the environment.                                         |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                     |
|---------------------------------------------|---------------------|
| Physical state                              | : Liquid            |
| Appearance                                  | : Liquid.           |
| Color                                       | : clear             |
| Odor                                        | : lemon-like        |
| Odor threshold                              | : No data available |
| pH                                          | : 12                |
| Melting point                               | : Not applicable    |
| Freezing point                              | : 32 °F             |
| Boiling point                               | : 100 °C            |
| Flash point                                 | : Non-combustible   |
| Relative evaporation rate (butyl acetate=1) | : 1                 |
| Flammability (solid, gas)                   | : No data available |
| Explosion limits                            | : No data available |
| Explosive properties                        | : No data available |
| Oxidizing properties                        | : No data available |
| Vapor pressure                              | : 18 mm Hg @ 70 F.  |
| Relative density                            | : No data available |
| Relative vapor density at 20 °C             | : No data available |
| Specific gravity / density                  | : 1.05 kg/l         |
| Solubility                                  | : Water: 100 %      |
| Log Pow                                     | : No data available |
| Auto-ignition temperature                   | : No data available |
| Decomposition temperature                   | : No data available |
| Viscosity                                   | : No data available |
| Viscosity, kinematic                        | : No data available |
| Viscosity, dynamic                          | : No data available |

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong acids. Oxidizing agent.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

Acute toxicity : Not classified

| Ethylene glycol monobutyl ether (109-86-4) |                            |
|--------------------------------------------|----------------------------|
| LD50 oral rat                              | 2370 mg/kg (Rat)           |
| LD50 dermal rabbit                         | 1280 mg/kg (Rabbit)        |
| LC50 inhalation rat (mg/l)                 | > 6.2 mg/l/4h (Rat)        |
| ATE US (oral)                              | 500.000 mg/kg body weight  |
| ATE US (dermal)                            | 1280.000 mg/kg body weight |
| ATE US (gases)                             | 4500.000 ppmV/4h           |
| ATE US (vapors)                            | 11.000 mg/l/4h             |
| ATE US (dust, mist)                        | 1.500 mg/l/4h              |

Skin corrosion/irritation : Not classified

pH: 12

Serious eye damage/irritation : Causes serious eye damage.

pH: 12

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Slight irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Gastrointestinal complaints.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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| Ethylene glycol monobutyl ether (109-86-4) |                                          |
|--------------------------------------------|------------------------------------------|
| LC50 fish 1                                | 14977 mg/l (LC50; 96 h; Salmo gairdneri) |
| EC50 Daphnia 1                             | > 10000 mg/l (EC50; 24 h)                |
| Threshold limit algae 2                    | > 10000 mg/l (EC0; 192 h)                |

### 12.2. Persistence and degradability

| Ethylene glycol monobutyl ether (109-86-4) |                                                              |
|--------------------------------------------|--------------------------------------------------------------|
| Persistence and degradability              | Readily biodegradable in water. Photodegradation in the air. |
| Chemical oxygen demand (COD)               | 1.62 g O <sub>2</sub> /g substance                           |
| ThOD                                       | 1.68 g O <sub>2</sub> /g substance                           |
| BOD (% of ThOD)                            | 0.07                                                         |

### 12.3. Bioaccumulative potential

| Ethylene glycol monobutyl ether (109-86-4) |                                  |
|--------------------------------------------|----------------------------------|
| Log Pow                                    | -0.88                            |
| Bioaccumulative potential                  | Bioaccumulation: not applicable. |

### 12.4. Mobility in soil

| Ethylene glycol monobutyl ether (109-86-4) |                   |
|--------------------------------------------|-------------------|
| Surface tension                            | 0.033 N/m (20 °C) |

### 12.5. Other adverse effects

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT  
Not regulated for transport

### TDG

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

| Ethylene glycol monobutyl ether (109-86-4)                                                                                                       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Subject to reporting requirements of United States SARA Section 313 |  |

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

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### 15.3. US State regulations

#### Ethylene glycol monobutyl ether (109-86-4)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|
| No                                                    | Yes                                                         | No                                                                  | Yes                                                               | 63                                |

#### Ethylene glycol monobutyl ether (109-86-4)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Full text of H-phrases:

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| Acute Tox. 4 (Dermal)            | Acute toxicity (dermal) Category 4            |
| Acute Tox. 4 (Inhalation)        | Acute toxicity (inhalation) Category 4        |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
| Acute Tox. 4 (Oral)              | Acute toxicity (oral) Category 4              |
| Eye Dam. 1                       | Serious eye damage/eye irritation Category 1  |
| Flam. Liq. 3                     | Flammable liquids Category 3                  |
| H226                             | Flammable liquid and vapor                    |
| H302                             | Harmful if swallowed                          |
| H312                             | Harmful in contact with skin                  |
| H318                             | Causes serious eye damage                     |
| H332                             | Harmful if inhaled                            |

NFPA health hazard

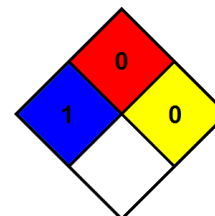
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 0 Minimal Hazard - Materials that will not burn

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

: B

B - Safety glasses, Gloves

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*