



# Safety Data Sheet

## SolarShield - Natural

P280  
P302+P352  
P305+P351+P338

Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of water/...  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
If skin irritation or a rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Dispose of contents/container to an approved waste disposal plant.  
Contaminated work clothing should not be allowed out of the workplace.

P333+P313  
P337+P313  
P362+P364  
P501  
P272

### SECTION 3: Composition/information on ingredients

#### Mixtures

Formula 11-183

Any concentration shown as a range is to protect confidentiality or due to batch variation.

#### Hazardous components

##### 1. 2-AMINO-2-METHYLPROPANOL

Concentration  $\geq 0.1513 - < 0.17$  % (Weight)  
EC no. 204-709-8  
CAS no. 124-68-5  
Index no. 603-070-00-6

- Eye damage/irritation (chapter 3.3), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 3

H315 Causes skin irritation  
H319 Causes serious eye irritation  
H412 Harmful to aquatic life with long lasting effects

##### 2. 2,4,7,9-Tetramethyl-5-decyne-4,7-diol, mixture of ( $\pm$ ) and meso

Concentration  $\geq 0.145 - \leq 0.203$  % (Weight)  
EC no. 204-809-1  
CAS no. 126-86-3

- Eye damage/irritation (chapter 3.3), Cat. 2A

H319 Causes serious eye irritation

##### 3. 2-Butoxyethanol

Concentration  $\geq 0.145 - \leq 0.203$  % (Weight)  
EC no. 203-905-0  
CAS no. 111-76-2  
Index no. 603-014-00-0

- Eye damage/irritation (chapter 3.3), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Flammable liquids (chapter 2.6), Cat. 4
- Acute toxicity, dermal (chapter 3.1), Cat. 4
- Acute toxicity, inhalation (chapter 3.1), Cat. 4
- Acute toxicity, oral (chapter 3.1), Cat. 4

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H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

### 4. Distillates (petroleum), hydrotreated heavy paraffinic

Concentration	$\geq 0.115 - \leq 0.23$ % (Weight)
CAS no.	64742-54-7

### 5. Poly(ethylene glycol-ran-propylene glycol) monobutyl ether

Concentration	$\geq 0.1162 - < 0.1176$ % (Weight)
CAS no.	9038-95-3

### 6. Propylene Glycol

Concentration	$> 2.277 - < 2.3$ % (Weight)
CAS no.	57-55-6

### 7. Dipropylene glycol monomethyl ether

Concentration	$\geq 2.3 - \leq 2.3$ % (Weight)
CAS no.	34590-94-8

- Flammable liquids (chapter 2.6), Cat. 4
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

H227	Combustible liquid
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

### Trade secret statement (OSHA 1910.1200(i))

See OSHA 1910.1200(i)

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	If inhaled: Call a poison center or doctor if you feel unwell.  Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
In case of skin contact	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse.

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Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

In case of eye contact

If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

If swallowed

If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

### **Most important symptoms/effects, acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## **SECTION 5: Fire-fighting measures**

### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Specific hazards arising from the chemical**

Closed containers may rupture if exposed to fire or extreme heat.

### **Special protective actions for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

### **Environmental precautions**

Keep out of drains, sewers, ditches, and waterways.

### **Methods and materials for containment and cleaning up**

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

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

### **Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

### **Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Keep out of the reach of children.

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### SECTION 8: Exposure controls/personal protection

#### Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures, such as personal protective equipment (PPE)

##### Pictograms



#### Eye/face protection

Safety glasses with side-shields.

#### Skin protection

Protective gloves and impervious clothing.

#### Body protection

Wear suitable protective clothing.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid
Odor	Slight
Odor threshold	Not determined.
pH	8.5 - 9.5
Flammability (solid, gas)	Not applicable.
Relative density	8.84 lb./gl.
Solubility(ies)	Water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	No data available.
Viscosity	55-60 KU
Explosive properties	None
Oxidizing properties	No data available.

### SECTION 10: Stability and reactivity

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### Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.  
Hazardous polymerization does not occur.

### Conditions to avoid

No data available.

### Incompatible materials

No data available.

### Hazardous decomposition products

No data available.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

#### Skin corrosion/irritation

May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

#### Serious eye damage/irritation

May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Respiratory or skin sensitization

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### Summary of evaluation of the CMR properties

No data available.

#### STOT-single exposure

No data available.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

No data available.

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### SECTION 12: Ecological information

#### Toxicity

No data available.

#### Persistence and degradability

No data available.

Dipropylene glycol monomethyl ether: Biodegradability aerobic - Exposure time 28 d  
Result: 76 % - Readily biodegradable  
(OECD Test Guideline 301F)

#### Bioaccumulative potential

No data available.

Dipropylene glycol monomethyl ether:  
<http://webnet.oecd.org/ccrweb/ChemicalDetails.aspx?ChemicalID=0F505FF5-E297-4D11-B841-AE6B73A2C59C>

Does not bioaccumulate

#### Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### SECTION 13: Disposal considerations

#### Disposal of the product

Dispose of contents/containers in accordance with local regulations.

#### Disposal of contaminated packaging

Do not reuse empty containers.

### SECTION 14: Transport information

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

### SECTION 15: Regulatory information

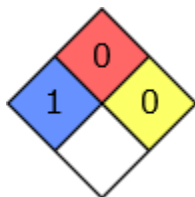
#### HMIS Rating

SolarShield - Natural	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

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### NFPA Rating



## SECTION 16: Other information

### Further information/disclaimer

While the description, data, and information contained herein are presented in good faith and believed to be accurate, it is provided for guidance only. Because many factors may affect application/use, it is recommended that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding the product described, data, or information set forth, or that the product, data, or information may be used without infringing the intellectual property rights of others. In no case shall the description, information, or data provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree the description, data, and information furnished herein are provided gratis and we assume no obligation or liability for the description, data, and information given or results obtained, all such being given and accepted at your risk. The content of this SDS (a.k.a. MSDS) is copyrighted [(c) PFI]. This SDS may be shared, without changes, and no changes to the PFI content are authorized. Updates to all PFI SDS documents must be obtained directly from PFI. See Section 1 for PFI contact and website information.