

# Safety Data Sheet

## GREEN-SHIELD®

Revision date : 2010/01/12  
Version: 1.0

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(30472219/SDS\_CPA\_US/EN)

Corrosive to the skin.

### Sensitization:

Skin sensitizing effects were not observed in animal studies.

### Chronic toxicity:

**Carcinogenicity:** The product has not been tested. The statement has been derived from products of a similar structure and composition. No carcinogenic potential can be deduced from other studies with rats and mice.

**Genotoxicity:** The product has not been tested. The statement has been derived from products of a similar structure and composition. The substance was not mutagenic in a test with mammals.

### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
68391-01-5	10.0 %	quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides
85409-23-0	10.0 %	Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides
64-17-5	<= 80.0 %	Ethanol Proprietary ingredients

### 4. First-Aid Measures

#### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm.

#### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

#### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

#### If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

### 5. Fire-Fighting Measures

Flash point:	200 °F	(closed cup)
Lower explosion limit:	4 %(V)	(air)
Upper explosion limit:	19 %(V)	(air)

#### Suitable extinguishing media:

water

#### Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, amine derivatives

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May be kept indefinitely if stored properly. If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

### 8. Exposure Controls and Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

#### Components with workplace control parameters

Ethanol	OSHA	PEL 1,000 ppm 1,900 mg/m <sup>3</sup> ;
	ACGIH	STEL value 1,000 ppm ;

#### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### Personal protective equipment

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

##### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

##### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### **General safety and hygiene measures:**

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS  
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

### 9. Physical and Chemical Properties

Form:	liquid	
Odour:	bitter almond-like	
Colour:	amber, clear	
pH value:	7.6	( 22 °C ) (as such)
Freezing point:	approx. 0 °C	Information applies to the solvent.
Boiling range:	approx. 79 - 100 °C	Information applies to the solvent.
Vapour pressure:	approx. 79 hPa	( 20 °C ) Information applies to the solvent.
Density:	0.987 g/cm <sup>3</sup>	( 20 °C )
Viscosity, dynamic:	15.25 mPa.s	( 20 °C )

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### 12. Ecological Information

#### Fish

Acute:

Highly toxic.

#### Aquatic invertebrates

Acute:

Very highly toxic.

### 13. Disposal considerations

#### Waste disposal of substance:

Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

### 14. Transport Information

Reference Bill of Lading

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

##### CERCLA RQ

100 LBS

##### CAS Number

64-17-5

##### Chemical name

Ethanol

#### State regulations

##### State RTK

MA, NJ, PA

##### CAS Number

64-17-5

##### Chemical name

Ethanol