# **SAFETY DATA SHEET**



### 1. Identification

Product identifier SDA 38B-33 190 Proof

Other means of identification None.

**Recommended use**General purpose solvent.

**Recommended restrictions**Use in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Company Name Greenfield Global USA Inc.

Address 1101 Isaac Shelby Drive
Shelbyville, KY 40065

USA

**Telephone** 502.232.7600 **Fax** 502.633.6100

Company Name Greenfield Global USA Inc.

Address 58 Vale Road

Brookfield, CT 06804

USA

**Telephone** 203.740.3471 **Fax** 203.740.3481

**Emergency phone number** 

USA CHEMTREC: 1.800.424.9300 (CCN 17213)
International CHEMTREC: +1.703.527.3887 (CCN 17213)

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsSerious eye damage/eye irritationCategory 2

Sensitization, skin Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Causes serious eye irritation. May cause an allergic skin

reaction.

Precautionary statement

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye

protection/face protection.

**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In

case of fire: Use appropriate media to extinguish.

SDA 38B-33 190 Proof SDS US

946217 Version #: 01 Revision date: - Issue date: 24-October-2018

Storage Store in a well-ventilated place. Keep cool.

Disposal

Hazard(s) not otherwise

Supplemental information

Dispose of contents/container in accordance with local/regional/national/international regulations.

classified (HNOC)

None known.

None.

# 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name     | CAS number |                     |  |
|-------------------|------------|---------------------|--|
| Ethyl alcohol     | 64-17-5    | 91.08 - 98.51       |  |
| Thymol            | 89-83-8    | 0.36 - 0.37         |  |
| Methyl salicylate | 119-36-8   | 0.36 - 0.37         |  |
| Peppermint Oil    | 8006-90-4  | 0.29 - 0.30         |  |
| Menthol           | 89-78-1    | 89-78-1 0.29 - 0.30 |  |
| Eucalyptol        | 470-82-6   | 0.15                |  |
| Water             | 7732-18-5  | 0.00 - 7.47         |  |

**Composition comments** 

All concentrations are in percent by weight unless otherwise indicated.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed

**General information** 

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards

946217 Version #: 01

Revision date: -

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

Issue date: 24-October-2018

SDA 38B-33 190 Proof 2/8

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is completely soluble in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits

| Components                       | Туре          | Value      |  |
|----------------------------------|---------------|------------|--|
| Ethyl alcohol (CAS 64-17-5)      | PEL           | 1900 mg/m3 |  |
|                                  |               | 1000 ppm   |  |
| US. ACGIH Threshold Limit Values | 5             |            |  |
| Components                       | Туре          | Value      |  |
| Ethyl alcohol (CAS 64-17-5)      | STEL          | 1000 ppm   |  |
| US. NIOSH: Pocket Guide to Chem  | nical Hazards |            |  |
| Components                       | Туре          | Value      |  |
| Ethyl alcohol (CAS 64-17-5)      | TWA           | 1900 mg/m3 |  |
|                                  |               | 1000 ppm   |  |

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Chemical goggles are recommended. Eye/face protection

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator with

organic vapor cartridge.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not

be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.

Color Clear liquid; invisible vapor.

Odor Sweet. Alcohol odor.

Odor threshold

pH

Not available.

Not available.

Melting point/freezing point

-173.2 °F (-114 °C)

Initial boiling point and boiling 172.9 °F (78.3 °C)

range

57.2 - 62.6 °F (14.0 - 17.0 °C) Closed Cup

Evaporation rate Expected to be rapid.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower 3.3 % v/

3.3 % v/v (for 100% ethyl alcohol)

(%)

Flash point

Flammability limit - upper

(%)

19 % v/v (for 100% ethyl alcohol)

Vapor pressure 59.5 mm Hg (68 °F (20 °C))

Vapor density 1.6 (air = 1)

Relative density 0.796 g/ml (77 °F (25 °C))

Solubility(ies)

Solubility (water) Completely soluble.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

685.4 °F (363 °C) (for 100% ethyl alcohol)

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

# 10. Stability and reactivity

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

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** May cause an allergic skin reaction. Causes mild skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test Results

Ethyl alcohol (CAS 64-17-5)

**Acute** 

Inhalation

Vapor

LC50 Rat 117 - 125 mg/l, 4 Hours

Oral

LD50 Rat 10470 mg/kg

Skin corrosion/irritation
Serious eye damage/eye

irritation

Causes mild skin irritation.
Causes serious eye irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Ethyl alcohol (CAS 64-17-5)

**Aquatic** 

Algae EC10 Freshwater algae 11.5 mg/l, 72 hours

EC50 Freshwater algae 275 mg/l, 72 hours

SDA 38B-33 190 Proof SDS US

946217 Version #: 01 Revision date: - Issue date: 24-October-2018

| Components      |      | Species                   | Test Results         |  |
|-----------------|------|---------------------------|----------------------|--|
|                 |      | Marine water algae        | 1900 mg/l            |  |
|                 | NOEC | Marine water algae        | 1580 mg/l            |  |
| Fish            | LC50 | Freshwater fish           | 11200 mg/l, 24 hours |  |
|                 | NOEC | Freshwater fish           | 250 mg/l             |  |
| Invertebrate    | EC50 | Freshwater invertebrate   | 5012 mg/l, 48 hours  |  |
|                 |      | Marine water invertebrate | 857 mg/l, 48 hours   |  |
|                 | NOEC | Freshwater invertebrate   | 9.6 mg/l, 10 days    |  |
|                 |      | Marine water invertebrate | 79 mg/l, 96 hours    |  |
| Other           | EC50 | Lemna minor               | 4432 mg/l, 7 days    |  |
|                 | NOEC | Lemna minor               | 280 mg/l, 7 days     |  |
| Other           |      |                           |                      |  |
| Micro-organisms | LC50 | Micro-organisms           | 5800 mg/l, 4 hours   |  |
| Terrestial      |      |                           |                      |  |
| Plant           | EC50 | Terrestrial plant         | 633 mg/kg dw         |  |
|                 |      |                           |                      |  |

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available for this product.

Mobility in soil

The product is completely soluble in water.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

UN number UN1170

UN proper shipping name Ethyl alcohol solution

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II
Environmental hazards

.....

Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 24, IB2, T4, TP1

Packaging exceptions 4b, 150
Packaging non bulk 202
Packaging bulk 242

**IATA** 

**UN number** UN1170

UN proper shipping name Ethyl alcohol solution

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No.
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN1170

UN proper shipping name ETHYL ALCOHOL SOLUTION

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards

Marine pollutant No. EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

**categories**Serious eye damage or eye irritation
Respiratory or skin sensitization

Yes

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethyl alcohol (CAS 64-17-5)

Low priority

**US state regulations** 

**US. Massachusetts RTK - Substance List** 

Ethyl alcohol (CAS 64-17-5)

### US. New Jersey Worker and Community Right-to-Know Act

Ethyl alcohol (CAS 64-17-5)

### US. Pennsylvania Worker and Community Right-to-Know Law

Ethyl alcohol (CAS 64-17-5)

### **US. Rhode Island RTK**

Ethyl alcohol (CAS 64-17-5)

### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date 24-October-2018

Revision date -Version # 01

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

Disclaimer This product is subject to Greenfield Global USA Inc.'s terms and conditions, which can be found

at http://www.greenfield.com/tc-po-us/. Greenfield cannot anticipate all conditions under which this information and this product, or the products of other manufacturers in combination with this product, may be used. The user is responsible for the proper and safe use, handling, storage and disposal of the product, and assumes liability for any loss, injury, damage or expense arising from any failure to do so. The data in this sheet is based on information and experience available at the

time of writing.

Revision date: - Issue date: 24-October-2018

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).