# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **SIS Formula SIC-1, 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 hazards** | Flammable liquids | Category 2 |
| **Health hazards** | Serious eye damage/eye irritation | Category 2 |
| | Carcinogenicity | Category 2 |
| | Specific target organ toxicity, single exposure | Category 1 (central nervous system, optic nerve) |

**OSHA defined hazards** Not classified.

**Label elements**

**Signal word** Danger

**Hazard statement** Highly flammable liquid and vapor. Causes serious eye irritation. Suspected of causing cancer. Causes damage to organs (central nervous system, optic nerve).

**Precautionary statement**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

| | |
|---|---|
| **Response** | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. If exposed: Call a poison center/doctor. In case of fire: Use appropriate media to extinguish. |
| **Storage** | Store in a well-ventilated place. Keep cool. Store locked up. |
| **Disposal** | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| **Hazard(s) not otherwise classified (HNOC)** | None known. |
| **Supplemental information** | None. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | CAS number | % |
|---|---|---|
| Ethyl alcohol | 64-17-5 | 85.40 - 90.49 |
| Ethyl acetate | 141-78-6 | 4.04 - 4.70 |
| Methanol | 67-56-1 | 4.50 - 4.52 |
| 2-Pentanone, 4-methyl- | 108-10-1 | 0.90 - 0.95 |
| Water | 7732-18-5 | 0.00 - 5.60 |

**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** Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

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

**Ingestion** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Most important symptoms/effects, acute and delayed** Narcosis. Headache. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 ml.

**Indication of immediate medical attention and special treatment needed** 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.

**General information** Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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** Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** 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.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

| | |
|---|---|
| **Fire fighting equipment/instructions** | 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. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |
| **General fire hazards** | Highly flammable liquid and vapor. |

## 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. Do not breathe mist or 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 soluble in water.<br><br>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.<br><br>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.<br><br>Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. 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** | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. |
| **Conditions for safe storage, including any incompatibilities** | Store locked up. 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**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | PEL | 410 mg/m3 |
| | | 100 ppm |
| Ethyl acetate (CAS 141-78-6) | PEL | 1400 mg/m3 |
| | | 400 ppm |
| Ethyl alcohol (CAS 64-17-5) | PEL | 1900 mg/m3 |
| | | 1000 ppm |
| Methanol (CAS 67-56-1) | PEL | 260 mg/m3 |
| | | 200 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | STEL | 75 ppm |
| | TWA | 20 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| Ethyl acetate (CAS 141-78-6) | TWA | 400 ppm |
| Ethyl alcohol (CAS 64-17-5) | STEL | 1000 ppm |
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | STEL | 300 mg/m3 |
| | | 75 ppm |
| | TWA | 205 mg/m3 |
| | | 50 ppm |
| Ethyl acetate (CAS 141-78-6) | TWA | 1400 mg/m3 |
| | | 400 ppm |
| Ethyl alcohol (CAS 64-17-5) | TWA | 1900 mg/m3 |
| | | 1000 ppm |
| Methanol (CAS 67-56-1) | STEL | 325 mg/m3 |
| | | 250 ppm |
| | TWA | 260 mg/m3 |
| | | 200 ppm |

**Biological limit values**

**ACGIH Biological Exposure Indices**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | 1 mg/l | Methyl isobutyl ketone | Urine | * |
| Methanol (CAS 67-56-1) | 15 mg/l | Methanol | Urine | * |

* - For sampling details, please see the source document.

**Exposure guidelines**

**US - California OELs: Skin designation**

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

Methanol (CAS 67-56-1) Skin designation applies.

**US - Tennessee OELs: Skin designation**

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**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**

**Eye/face protection** Chemical goggles are recommended.

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove 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** | Observe any medical surveillance requirements. 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. |

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Liquid. |
| **Form** | Liquid. |
| **Color** | Colorless. |
| **Odor** | Not available. |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point/freezing point** | -173.2 °F (-114 °C) |
| **Initial boiling point and boiling range** | 176 °F (80 °C) |
| **Flash point** | 55.4 - 62.6 °F (13.0 - 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/v |
| **Flammability limit - upper (%)** | 19 % v/v |
| **Vapor pressure** | 44.6 mm Hg |
| **Vapor density** | 1.6 (air = 1) |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Completely soluble. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | 685.4 °F (363 °C) (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** | Acids. 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 be absorbed through the skin. Prolonged skin contact may cause temporary irritation. |
| **Eye contact** | Causes serious eye irritation. |
| **Ingestion** | May be harmful if swallowed. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Narcosis. Headache. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.<br><br>Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 ml. |

**Information on toxicological effects**

**Acute toxicity** May be harmful if swallowed.

| Components | Species | Test Results |
|---|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | > 16000 mg/kg |
| **Oral** | | |
| LD50 | Rat | 3200 mg/kg |
| Ethyl acetate (CAS 141-78-6) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | > 18000 mg/kg |
| **Inhalation** | | |
| *Vapor* | | |
| LC50 | Rat | 58.6 mg/l, 4 hours |
| **Oral** | | |
| LD50 | Rat | 10170 mg/kg |
| 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** | Prolonged skin contact may cause temporary irritation. |
| **Serious eye damage/eye irritation** | Causes serious eye irritation. |

**Respiratory or skin sensitization**

| | |
|---|---|
| **Respiratory sensitization** | Not a respiratory sensitizer. |
| **Skin sensitization** | This product is not expected to cause skin sensitization. |
| **Germ cell mutagenicity** | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| **Carcinogenicity** | Suspected of causing cancer. |

**IARC Monographs. Overall Evaluation of Carcinogenicity**

2-Pentanone, 4-methyl- (CAS 108-10-1) 2B Possibly carcinogenic to humans.

**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** Causes damage to organs (central nervous system, optic nerve).

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 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 |
|---|---|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 3682 mg/l, 24 hours |
| Fish | LC50 | Pimephales promelas | 505 mg/l, 96 Hours |
| *Chronic* | | | |
| Crustacea | EC50 | Daphnia magna | 78 mg/l, 21 days |
| Fish | NOEC | Pimephales promelas | 57 mg/l, 31 days |
| 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 |
| | | 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 |
| **Terrestrial** | | | |
| Plant | EC50 | Terrestrial plant | 633 mg/kg dw |
| Methanol (CAS 67-56-1) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Crustacea | EC50 | Daphnia magna | > 10000 mg/l, 48 hours |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 15400 mg/l, 96 hours |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

| | |
|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | 1.31 |
| Methanol (CAS 67-56-1) | -0.77 |

**Mobility in soil** The product is 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** | UN1993 |
| **UN proper shipping name** | Flammable liquids, n.o.s. (Ethyl alcohol; Ethyl acetate) |
| **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** | IB2, T7, TP1, TP8, TP28 |
| **Packaging exceptions** | 150 |
| **Packaging non bulk** | 202 |
| **Packaging bulk** | 242 |

**IATA**

| | |
|---|---|
| **UN number** | UN1993 |
| **UN proper shipping name** | Flammable liquid, n.o.s. (Ethyl alcohol; Ethyl acetate) |
| **Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Packing group** | II |
| **Environmental hazards** | No. |
| **ERG Code** | 3H |
| **Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**IMDG**

| | |
|---|---|
| **UN number** | UN1993 |
| **UN proper shipping name** | FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol; Ethyl acetate) |
| **Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | - |
| **Packing group** | II |
| **Environmental hazards** | |
| **Marine pollutant** | No. |
| **EmS** | F-E, S-E |
| **Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 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)**

| | |
|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | Listed. |
| Ethyl acetate (CAS 141-78-6) | Listed. |
| Methanol (CAS 67-56-1) | Listed. |

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

**Toxic Substances Control Act (TSCA)** All components of the mixture on the TSCA 8(b) inventory are designated “active”.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories**
Flammable (gases, aerosols, liquids, or solids)
Serious eye damage or eye irritation
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| 2-Pentanone, 4-methyl- | 108-10-1 | 0.90 - 0.95 |
| Methanol | 67-56-1 | 4.50 - 4.52 |

**Other federal regulations**

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

2-Pentanone, 4-methyl- (CAS 108-10-1)
Methanol (CAS 67-56-1)

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

Not regulated.

**Safe Drinking Water Act (SDWA)** Contains component(s) regulated under the Safe Drinking Water Act.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

| | |
|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | 6715 |

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

| | |
|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | 35 %WV |

**DEA Exempt Chemical Mixtures Code Number**

| | |
|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | 6715 |

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

| | |
|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | Low priority |
| Ethyl acetate (CAS 141-78-6) | Low priority |
| Ethyl alcohol (CAS 64-17-5) | Low priority |

**US state regulations**

**US. Massachusetts RTK - Substance List**

2-Pentanone, 4-methyl- (CAS 108-10-1)
Ethyl acetate (CAS 141-78-6)
Ethyl alcohol (CAS 64-17-5)
Methanol (CAS 67-56-1)

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

2-Pentanone, 4-methyl- (CAS 108-10-1)
Ethyl acetate (CAS 141-78-6)
Ethyl alcohol (CAS 64-17-5)
Methanol (CAS 67-56-1)

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

2-Pentanone, 4-methyl- (CAS 108-10-1)
Ethyl acetate (CAS 141-78-6)

Ethyl alcohol (CAS 64-17-5)
Methanol (CAS 67-56-1)

**US. Rhode Island RTK**

2-Pentanone, 4-methyl- (CAS 108-10-1)
Ethyl acetate (CAS 141-78-6)
Ethyl alcohol (CAS 64-17-5)
Methanol (CAS 67-56-1)

**California Proposition 65**

**WARNING:** This product can expose you to chemicals including 2-Pentanone, 4-methyl-, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

| | |
|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | Listed: November 4, 2011 |

**California Proposition 65 - CRT: Listed date/Developmental toxin**

| | |
|---|---|
| 2-Pentanone, 4-methyl- (CAS 108-10-1) | Listed: March 28, 2014 |
| Methanol (CAS 67-56-1) | Listed: March 16, 2012 |

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

2-Pentanone, 4-methyl- (CAS 108-10-1)
Ethyl acetate (CAS 141-78-6)
Methanol (CAS 67-56-1)

**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) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| 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) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

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

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

| | |
|---|---|
| **Issue date** | 26-September-2018 |
| **Revision date** | 07-February-2019 |
| **Version #** | 02 |
| **HMIS® ratings** | Health: 4*<br>Flammability: 3<br>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. |