

Brand: **MAXTITE**

Issue Date: 09-Jan-2024

Revision Date: 09-Jan-2024

Version 01

1. IDENTIFICATION

Product identifier

Product Name 190 Proof Denatured Alcohol

Other means of identification

SDS # 5412

UN/ID No UN1170

Recommended use of the chemical and restrictions on use

Recommended Use Solvent, thinner and cleaner.

Details of the supplier of the safety data sheet

Supplier Address

Pacific Innovations LLC
129 Seegers Avenue
Elk Grove Village, IL 60007
1 (708) 320 2088

Emergency telephone number

Emergency Telephone INFOTRAC 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Physical state Liquid

Classification

| | |
|-------------------------------|-------------|
| Flammable Liquids | Category 2 |
| Eye irritation | Category 2A |
| Central Nervous System (Eyes) | Category 2 |

Signal Word

Danger

Hazard statements

Highly flammable liquid and vapor
Causes serious eye irritation
May cause damage to organs (Central nervous system, Eyes)



Precautionary Statements - 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
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash skin thoroughly after handling
 Do not eat, drink, or smoke when using this product
 Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

Immediately call a poison center or doctor/physician
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 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
 IF exposed or concerned: Call a POISON CENTER/physician
 IN CASE OF FIRE: Use dry sand, dry chemical, or alcohol-resistant foam for extinction. Collect spillage.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|------------------------|----------|----------|
| Ethanol | 64-17-5 | 70 – 90 |
| Isopropyl Alcohol | 67-63-0 | 5 – 10 |
| Methanol | 67-56-1 | 3 – 5 |
| Methyl isobutyl ketone | 108-10-1 | 0.1 – 1 |

*Actual concentration is withheld as a trade secret.

*For the full text of the H-Statements mentioned in this section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

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|-----------------------|--|
| General Advice | Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and seek medical advice. |
| Skin Contact | Rinse with water. If on clothes, remove clothes. Take victim to a doctor if irritation persists. |
| Eye Contact | Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, call a physician. |
| Ingestion | Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Do not induce vomiting without medical advice. |

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media High volume water jet**Specific Hazards Arising from the Chemical**

Do not allow run-off from fire fighting to enter drains or water ways.

Hazardous combustion products

Carbon oxides, formaldehyde, corrosive vapors, nitrogen oxides, toxic fumes

Protective equipment and precautions for firefighters

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

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see Section 8.

Environmental precautions**Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains, inform respective authorities.

Methods and material for containment and cleaning up**Methods and Materials for Containment and Clean up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Protection Against Fire and Explosion**

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Advice on Safe Handling

Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see Section 8. Smoking, eating, and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. No smoking.

Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|---|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards. |
| Incompatible Materials | Strong acids, strong bases, and oxidizing agents. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

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|-----------------------------|--|
| Engineering Controls | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. |
|-----------------------------|--|

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|---|
| Respiratory Protection | Where risk assessment shows air-purifying respirators are required, be sure to use an MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. |
| Eye/Face Protection | Use chemical safety goggles and/or a full-face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH. Maintain eye wash station and safety showers in work area. |
| Skin and Body Protection | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. |

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|-----------|-----------------------|----------------|
| Physical state | Liquid | Odor | Alcohol-like |
| Appearance | Colorless | Odor Threshold | Not determined |
| Color | Clear | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|---------------------------|--------------------------------|
| pH | Not available | |
| Melting point / freezing point | -114.1C / Not available | |
| Initial boiling point and boiling range | 78.5C | |
| Flash point | 14C / 58F | |
| Evaporation Rate | Not available | |
| Flammability (Solid, Gas) | Class 1B Flammable Liquid | |
| Flammability Limit in Air | | |
| Lower Explosive Limit | 3.3% | |
| Upper Explosive Limit | 19.0% | |
| Vapor Pressure | 57.3 hPa at 20C | |
| Vapor Density | 1.6 | |
| Relative Density | 0.789 – 0797 at 20C | |
| Water Solubility | Completely soluble | |
| Decomposition Temperature | Not available | |
| Autoignition temperature | 363C / 685.4F closed cup | |

10. STABILITY AND REACTIVITY

Chemical stability

This material is considered stable at ambient temperatures 70F (21C).

Conditions to Avoid

Flames, sparks, electrostatic discharge, heat and other ignition sources.

Incompatible materials

This product reacts with strong acid, strong bases, and oxidizing agents.

Hazardous decomposition products

Combustible products upon decomposition, carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Reactions:

This product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|------------------------------|
| Eye Contact | Avoid contact with eyes. |
| Skin Contact | Avoid contact with skin. |
| Inhalation | Avoid inhalation |
| Ingestion | May be harmful if swallowed. |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------------|----------------------|------------------------|----------------------|
| Methanol 67-56-1 | = 7300 mg/kg (Mouse) | = 15800 mg/kg (Rabbit) | = 64000 ppm/4H |
| Isopropyl Alcohol 67-63-0 | = 4396 mg/kg (Rat) | = 12800 mg/kg (Rat) | = 72.6 mg/L/4H (Rat) |
| Methyl Isobutyl Ketone 108-10-1 | - | - | = 11.6 mg/L/4H (Rat) |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|---------------|
| Symptoms | Not available |
|-----------------|---------------|

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---|
| Skin corrosion/irritation | Mild skin irritation. |
| Serious eye damage/eye irritation | Causes severe eye irritation. |
| Carcinogenicity | |
| Group 2B | Possibly carcinogenic to humans Methyl Isobutyl Ketone (108-10-1) |
| NTP/OSHA | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen. |

12. ECOLOGICAL INFORMATION

Component Information

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|------------------------------------|--|---|--|
| Ethanol 64-17-5 | EC50: > 100 mg/L (72h, Chlorella vulgaris) | LC50: > 100 mg/L (96h, Pimephales promelas) | EC50: > 100 mg/L (48h, Ceriodaphnia dubia) |
| Isopropanol 67-63-0 | EC50: > 100 mg/L (7d, Scenedesmus quadricauda) | LC50: > 100 mg/L (96h, Pimephales promelas) | EC50: > 100 mg/L (24h, Daphnia magna) |
| Methyl Isobutyl Ketone 108-10-1 | - | LC50: > 100 mg/L (96h, Danio rerio) | EC50: > 100 mg/L (48h, Daphnia magna) |

Persistence/Degradability

No data available

Bioaccumulation

No data available

Mobility

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Remove waste in accordance with local and/or national regulations. Contact a licensed professional waste disposal service to dispose of this material. Different types of hazardous waste should not be mixed together if it will entail a risk of pollution or create problems for the further management of the waste.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

| | |
|-----------------------------------|-------------------|
| UN/ID No | UN1170 |
| Proper Shipping Name | Ethanol solutions |
| Transport hazard class(es) | 3 |
| Packing Group | II |

IATA

| | |
|-----------------------------------|-------------------|
| UN/ID No | UN1170 |
| Proper Shipping Name | Ethanol solutions |
| Transport hazard class(es) | 3 |
| Packing Group | II |

IMDG

| | |
|-----------------------------|-------------------|
| UN/ID No | UN1170 |
| Proper Shipping Name | Ethanol solutions |

Transport hazard class(es) 3
Packing Group II

15. REGULATORY INFORMATION

International Inventories

| Component | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|--------------------|------|-----------------------|----------|---------------|------|-------|------|-------|------|
| Product components | X | ACTIVE | X /- | X /- | X | X | X | X | X |

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*
- AICS - Australian Inventory of Chemical Substances*

US Federal Regulations

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

- Isopropyl Alcohol (67-63-0)
- Methanol (67-56-1)

SARA 311/312

- Flammable (gases, aerosols, liquids, or solids)
- Serious eye damage or eye irritation
- Specific target organ toxicity (single or repeated exposure)

CERCLA

40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Methanol (67-56-1) = 5000 lbs and MIBK (108-10-1) = 5000 lbs

US State Regulations

California Proposition 65

Methanol (67-56-1) and Methyl Isobutyl Ketone (108-10-1)

U.S. State Right-to-Know Regulations

| Component | Massachusetts | Pennsylvania |
|------------------------------------|---------------|--------------|
| Ethanol 64-17-5 | Yes | Yes |
| Isopropyl Alcohol 67-63-0 | Yes | Yes |
| Methanol 67-56-1 | Yes | Yes |
| Methyl Isobutyl Ketone 108-10-1 | No | Yes |

16. OTHER INFORMATION

| | | | | |
|--------------------|----------------------------|--------------------------|------------------------------|--|
| <u>NFPA</u> | Health hazards 2 | Flammability 3 | Instability 0 | Special hazards - |
| <u>HMIS</u> | Health hazards 2 | Flammability 3 | Physical hazards 0 | Personal Protection Not determined |

Issue Date: 09-Jan-2024
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Revision Note: New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet