SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: IPA/ IPA5/ IPA55
Product Use Description: Isopropanol Anti-Freeze

Supplier Details
Manufacturer Name: The Berkebile Oil Company
Address: 1216 Red Brant Road
Somerset, PA 15501
Phone: 814-443-1656
Email: info@berkebileoil.com
Fax: 814-443-2873
Chemtrec Emergency Tel #: 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids: Category 2
Eye irritation: Category 2A

Specific target organ toxicity - single exposure: Category 3 (Central nervous system)

GHS Label element

Hazard pictograms:
Signal word: Danger
Hazard statements: H225 Highly flammable liquid and vapor
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements: Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

Potential Health Effects

Carcinogenicity:

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Emergency Overview

<table>
<thead>
<tr>
<th>WARNING!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Colour</td>
</tr>
<tr>
<td>Odour</td>
</tr>
</tbody>
</table>

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>90 - 100</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

Synonyms : Isopropanol Anhydrous/Isopropyl Alcohol ACS Grade/Velvasol 425/Value Grade Isopropanol/ Isopropyl Alcohol
SECTION 4. FIRST AID MEASURES

General advice:
- Move out of dangerous area.
- Show this safety data sheet to the doctor in attendance.
- Do not leave the victim unattended.

If inhaled:
- Consult a physician after significant exposure.
- If unconscious place in recovery position and seek medical advice.

In case of skin contact:
- If on skin, rinse well with water.
- If on clothes, remove clothes.

In case of eye contact:
- Immediately flush eye(s) with plenty of water.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.

If swallowed:
- Keep respiratory tract clear.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media:
- Alcohol-resistant foam
- Carbon dioxide (CO2)
- Dry chemical

Unsuitable extinguishing media:
- High volume water jet

Specific hazards during firefighting:
- Do not allow run-off from fire fighting to enter drains or watercourses.
- No hazardous combustion products are known

Hazardous combustion products:
- No hazardous combustion products are known

Specific extinguishing methods:
- Use a water spray to cool fully closed containers.

Further information:
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.

Special protective equipment for firefighters:
Wear self-contained breathing apparatus for firefighting if necessary.

**NFPA Flammable and Combustible Liquids Classification:**
Flammable Liquid Class IB

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment.
Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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 materials for containment and cleaning 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).

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling:
Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
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.
Open drum carefully as content may be under pressure.

Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage:
- No smoking.
- Keep container tightly closed in a dry and well-ventilated place.
- Containers which are opened must be carefully re-sealed and kept upright to prevent leakage.
- Observe label precautions.
- Electrical installations/working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>400 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>500 ppm 1,225 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>500 ppm 1,225 mg/m3</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>In urine</td>
<td>End of shift at end of work-week</td>
<td>40 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally Required
In the case of vapour formation use a respirator with an approved filter.

Hand protection
Remarks: The suitability for a specific workplace should be dis-
cussed with the producers of the protective gloves.

**Eye protection**
- Eye wash bottle with pure water
- Tightly fitting safety goggles
- Wear face-shield and protective suit for abnormal processing problems.

**Skin and body protection**
- impervious clothing
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**
- When using do not eat or drink.
- When using do not smoke.
- Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless, clear</td>
</tr>
<tr>
<td>Odour</td>
<td>alcohol-like</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>200 ppm</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing Point (Melting point/freezing point)</td>
<td>-88 °C (-126 °F)</td>
</tr>
<tr>
<td>Boiling Point (Boiling point/boiling range)</td>
<td>82 °C (180 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>12 °C (54 °F)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>1.2 n-Butyl Acetate</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Burning rate</td>
<td>No data available</td>
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<tr>
<td>Upper explosion limit</td>
<td>12.7 % (V)</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>2 % (V)</td>
</tr>
<tr>
<td>Property</td>
<td>Value</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>32 mmHg @ 20 °C (68 °F)</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>2 @ 20 °C (68 °F)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.79 @ 20 °C (68 °F)</td>
</tr>
<tr>
<td>Density</td>
<td>0.79 g/cm³ @ 20 °C (68 °F)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Water solubility: completely miscible</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>log Pow: 0.05 @ 25 °C (77 °F)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>399 °C</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Viscosity, dynamic: 2.4 mPa.s @ 20 °C (68 °F)</td>
</tr>
<tr>
<td></td>
<td>Viscosity, kinematic: 2.6 mm²/s @ 25 °C (77 °F)</td>
</tr>
</tbody>
</table>

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: No dangerous reaction known under conditions of normal use.

**Chemical stability**: Stable under normal conditions.

**Possibility of hazardous reactions**: Vapours may form explosive mixture with air.

**Conditions to avoid**: Heat, flames and sparks.

**Incompatible materials**: Aldehydes, Chlorine, Ethylene oxide, halogens.
isocyanates
Strong acids
strong oxidizing agents

Hazardous decomposition products
: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product:**

Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity: Acute toxicity estimate: > 40 mg/l
Exposure time: 4 h Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

**Components:**

**67-63-0:**

Acute oral toxicity: LD50 (rat): 5,500 mg/kg
Symptoms: ataxia, Vomiting, Pain, hypothermia, Coma, Dizziness

Acute inhalation toxicity: LC50 (rat, male and female): > 10000 ppm
Exposure time: 6 h Test atmosphere: vapor
Symptoms: Central nervous system depression
GLP: yes
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Acute dermal toxicity: LD50 (rabbit): > 12,800 mg/kg

**64-17-5:**

Acute oral toxicity:

Assessment: The component/mixture is toxic after single ingestion.
Remarks: No data available
Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.
Remarks: No data available

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.
Remarks: No data available

Skin corrosion/irritation
Product:
Remarks: May cause skin irritation in susceptible persons.

Components:
67-63-0:
Species: rabbit
Exposure time: 4 h
Method: In vivo
Result: Not irritating to skin
Remarks: Not irritating to skin

64-17-5:
Result: Irritating to skin.
Remarks: No data available

Serious eye damage/eye irritation
Product:
Remarks: Eye irritation

Components:
67-63-0:
Species: rabbit
Result: Irritating to eyes.
Exposure time: 24 h
Method: In vivo

64-17-5:
Species: rabbit
Result: Eye irritation

Respiratory or skin sensitisation
Components:
67-63-0:
Test Type: Buehler Test
Exposure routes: Dermal
Species: guinea pig
Assessment: Does not cause respiratory sensitisation.
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: yes
Remarks: not sensitising

64-17-5:
Test Type: lymph node assay
Species: mouse
Method: OECD Test Guideline 429
GLP: No data available
Remarks: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:
67-63-0:
Genotoxicity in vitro : Test Type: Ames test
   Metabolic activation: with and without metabolic activation
   Result: negative

   : Test Type: Mammalian cell gene mutation assay
   Test species: Chinese hamster ovary (CHO)
   Metabolic activation: with and without metabolic activation
   Result: negative
   GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test
   Test species: mouse (male and female)
   Application Route: Intraperitoneal
   Exposure time: Single
   Dose: 0, 350, 1173, 2500, 3500 mg/kg
   Result: negative
   GLP: yes

Germ cell mutagenicity- Assessment
: Did not show mutagenic effects in animal experiments.

64-17-5:
Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay
   Test species: mouse lymphoma cells
   Metabolic activation: with and without metabolic activation
   Method: OECD Test Guideline 476
   Result: negative
   GLP: No data available

   : Test Type: Ames test
   Test species: Salmonella typhimurium
   Metabolic activation: with and without metabolic acti-
Genotoxicity in vivo: Test Type: Dominant lethal assay
Test species: mouse (male)
Application Route: Oral
Dose: 10 or 40% ethanol in water
Method: OECD Test Guideline 478
Result: Ambiguous
GLP: No data available

Carcinogenicity

Components:

**67-63-0:**
Species: rat, (male and female)
Application Route: inhalation (vapour)
Exposure time: 104 wks
Activity duration: 6 h
Dose: 0, 500, 2500, 5000 ppm
Frequency of Treatment: 5 days/week
NOAEL: 5,000 ppm
Method: OECD Test Guideline 451
Result: did not display carcinogenic properties
GLP: yes

Species: mouse, (male and female)
Application Route: inhalation (vapour)
Exposure time: 78 wks
Activity duration: 6 h
Dose: 0, 500, 2500, 5000 ppm
Frequency of Treatment: 5 days/week
NOAEL: 5,000 ppm

Result: did not display carcinogenic properties
GLP: yes

Carcinogenicity - Assessment
: Not classifiable as a human carcinogen.

**64-17-5:**
Carcinogenicity - Assessment
: No evidence of carcinogenicity in animal studies.
Reproductive toxicity

Components:

67-63-0: Effects on fertility

Test Type: Two-generation study
Species: rat, male and female
Dose: 0, 100, 500, 1000 mg/kg bw/d
General Toxicity - Parent: NOAEL: 500 mg/kg body weight
General Toxicity F1: NOAEL: 500 mg/kg body weight
Fertility: NOAEL: 1,000 mg/kg body weight
Symptoms: Maternal effects. Fetotoxicity. Reduced offspring weight gain.
Method: OECD Test Guideline 416
Result: Animal testing did not show any effects on fertility.
GLP: yes

Effects on fetal development
Species: rabbit
Application Route: Oral
Dose: 0, 120, 240, 480 mg/kg bw/day
Duration of Single Treatment: 13 d
General Toxicity Maternal: NOAEL: 240 mg/kg body weight
Developmental Toxicity: NOAEL: 480 mg/kg
Symptoms: Maternal toxicity
Result: No teratogenic effects. GLP: yes

Reproductive toxicity - Assessment
Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.

64-17-5: Effects on fertility

Test Type: Two-generation study
Species: mouse, male and female
Application Route: oral
Dose: 5, 10 and 15% v/v in water
General Toxicity - Parent: NOAEL: 15 % diet
General Toxicity F1: NOAEL: 10 % diet
Symptoms: reduced litter size Reduced sperm motility in F1 generation
Method: OECD Test Guideline 416
GLP: No data available

Effects on foetal development
Species: rat
Application Route: Inhalation
Dose: 10,000, 16,000 or 20,000 ppm
General Toxicity Maternal: NOAEL: 16,000 ppm Teratogenicity: NOAEL: > 20,000 ppm
Symptoms: No malformations were observed. Method: OECD Test Guideline 414
GLP: No data available

Reproductive toxicity - Assessment
No evidence of adverse effects on sexual function and fertility, and on development, based
on animal experiments.

**STOT - single exposure**

**Product:**

Target Organs: Central nervous system

**Components:**

- **67-63-0:**
  - Exposure routes: Inhalation
  - Target Organs: Central nervous system
  - Assessment: May cause drowsiness or dizziness.

Components:

No data available

**STOT - repeated exposure**

**Product:**

No data available

**Components:**

No data available

**Repeated dose toxicity**

**Components:**

- **67-63-0:**
  - Species: rat, male and female
  - NOAEL: > 5000
  - Application Route: inhalation (vapour)
  - Exposure time: 13 wks
  - Number of exposures: 6 h/d, 5 d/wk
  - Dose: 0, 100, 500, 1500, 5000 ppm
  - Method: OECD Test Guideline 413
  - GLP: yes
  - Symptoms: Central nervous system depression

Species: mouse, male and female

No data available

NOAEL: > 5000
Application Route: inhalation (vapour)
Exposure time: 13 wks
Number of exposures: 6 h/d, 5 d/wk
Dose: 0, 100, 500, 1500, 5000 ppm
Method: OECD Test Guideline 413
GLP: yes
Symptoms: Central nervous system depression

64-17-5:
Species: rat, male and female
NOAEL: 10 ml/kg
Application Route: Oral
Exposure time: 7 or 14 wk
Number of exposures: 2 times/d, 7 d/wk
Dose: 5, 10, 20ml/kg of 16.25% etoh
Method: OECD Test Guideline 408
GLP: yes

Aspiration toxicity
Components:
67-63-0:
May be harmful if swallowed and enters airways.

Further information
Product:
Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Components:
67-63-0:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates
: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Test Type: static test

Toxicity to algae: Remarks: No data available

Toxicity to bacteria: Toxicity threshold (Pseudomonas putida): 1,050 mg/l
Exposure time: 16 h

64-17-5:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates: EC50 (Ceriodaphnia dubia): 5,012 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: No data available

Persistence and degradability

Components:

67-63-0:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 95 %
Method: OECD Test Guideline 301E

Chemical Oxygen Demand (COD):
0.00209 mg/g

Theoretical Oxygen Demand (ThOD):
0.00240 mg/g

64-17-5:
Biodegradability: Result: Readily biodegradable.

Bioaccumulative potential

Components:

67-63-0:
Bioaccumulation: Bioconcentration factor (BCF): 3.16
Remarks: Does not significantly accumulate in organisms.

Partition coefficient: n-octanol/water
log Pow: 0.05 (25 °C)

64-17-5:
Bioaccumulation: Remarks: Bioaccumulation is unlikely.

Mobility in soil

Components:
67-63-0:

Other adverse effects
No data available

Product:
Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO’s Environmental Services Group at 800-637-7922.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): UN1219, Isopropanol, 3, II

IMDG (International Maritime Dangerous Goods): UN1219, ISOPROPANOL, 3, II,
Flash Point: 12 °C (54 °F)

DOT (Department of Transportation): UN1219, Isopropanol, 3, II
SECTION 15. REGULATORY INFORMATION

OSHA Hazards: Flammable liquid, Moderate eye irritant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards
: Fire Hazard
   Acute Health Hazard

SARA 302: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>100 %</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>0.1  %</td>
</tr>
<tr>
<td>71-23-8</td>
<td>n-Propanol</td>
<td>0.015 %</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. CleanWater Act Section 307

US State Regulations
Massachusetts Right To Know

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>90 - 100 %</td>
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### Pennsylvania Right To Know

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</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>90 - 100 %</td>
</tr>
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</table>

### New Jersey Right To Know

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<table>
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</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>90 - 100 %</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>0.1 - 1 %</td>
</tr>
</tbody>
</table>

### California Prop 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### The components of this product are reported in the following inventories:

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1907/2006 (EU)</td>
<td>n (Negative listing) (Not in compliance with the inventory)</td>
</tr>
<tr>
<td>Switzerland. New notified substances and declared preparations</td>
<td>y (positive listing) (The formulation contains substances listed on the Swiss Inventory)</td>
</tr>
<tr>
<td>United States TSCA Inventory</td>
<td>y (positive listing) (On TSCA Inventory)</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td>y (positive listing) (All components of this product are on the Canadian DSL.)</td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td>y (positive listing) (On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>New Zealand. Inventory of Chemical Substances</td>
<td>y (positive listing) (On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>Japan. ENCS - Existing and New Chemical Substances Inventory</td>
<td>y (positive listing) (On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>Japan. ISHL - Inventory of Chemical Substances (METI)</td>
<td>y (positive listing) (On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>Korea. Korean Existing Chemicals Inventory (KECI)</td>
<td>y (positive listing) (On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>y (positive listing) (On the inventory, or in compliance with the inventory)</td>
</tr>
</tbody>
</table>
### SECTION 16. OTHER INFORMATION

**Further information**

**NFPA:**
- Flammability

**HMIS III:**

Special hazard.

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

**Legacy MSDS:** R0001444

**Material number:**
- 16067144, 708297, 153649, 16063169, 16062664, 16062659, 16062658, 16056239, 16056234, 16056233, 16056232, 16056231, 16056230, 16056236, 16056235, 16056229, 16056228, 16056212, 16061245, 16053485, 16052635, 16049720, 16045941, 16045942, 16030493, 16030184, 16023890, 16020147, 16017860, 16010158, 16000104, 779179, 777274, 776868, 772812, 772811, 749963, 744289, 744288, 744287, 737212, 728214, 717444, 713300, 696169, 696170, 686168, 667236, 667235, 642426, 638919, 628350, 622971, 615270, 614245, 614244, 607426, 604761, 598539, 598538, 596170, 584582, 574318, 568108, 554273, 554170, 554086, 554045, 554336, 554300, 550689, 549773, 554335, 554291, 554272, 554257, 554206, 554169, 554149, 554085, 554371, 556671, 547315, 547297, 551361, 544760, 508619, 508618, 508414, 55018, 73136, 55939, 55835, 104158, 56756, 105079, 71262
<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACGIH</strong></td>
</tr>
<tr>
<td><strong>AICS</strong></td>
</tr>
<tr>
<td><strong>DSL</strong></td>
</tr>
<tr>
<td><strong>NDSL</strong></td>
</tr>
<tr>
<td><strong>CNS</strong></td>
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<tr>
<td><strong>CAS</strong></td>
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<td><strong>EC50</strong></td>
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<tr>
<td><strong>EC50</strong></td>
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<tr>
<td><strong>EOSCA</strong></td>
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<tr>
<td><strong>EINECS</strong></td>
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<tr>
<td><strong>MAK</strong></td>
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<tr>
<td><strong>GHS</strong></td>
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<tr>
<td><strong>&gt;=</strong></td>
</tr>
<tr>
<td><strong>IC50</strong></td>
</tr>
<tr>
<td><strong>IARC</strong></td>
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<tr>
<td><strong>IECSC</strong></td>
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<tr>
<td><strong>ENCS</strong></td>
</tr>
<tr>
<td><strong>KECI</strong></td>
</tr>
<tr>
<td><strong>&lt;=</strong></td>
</tr>
<tr>
<td><strong>LC50</strong></td>
</tr>
</tbody>
</table>