

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FLEX 99.9% Isopropyl Alcohol

OTHER MEANS OF IDENTIFICATION: Not applicable.

GENERAL USE: For professional use only.

PRODUCT DESCRIPTION: High Purity Pharmacopoeia Isopropyl Alcohol

MANUFACTURER

R. R. Street & Co. Inc.
184 Shuman Boulevard/Suite 150
Naperville, IL 60563

Product Information: 800-323-7206 (USA
& Canada only) or 630-416-4244

24 HR. EMERGENCY TELEPHONE NUMBERS

Medical Emergency: 800-222-1222

Transportation Emergency: 800-424-9300 (USA &
Canada only) or 703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Flammable Liquids: Category 2

Eye Damage/Irritation: Category 2

Specific Target Organ Toxicity (STOT-SE) Central Nervous System: Category 3

GHS LABEL ELEMENTS

Symbol(s):



Signal Word: Danger

Hazard Statements:

H225 – Highly flammable liquid and vapor.

H319 – Causes serious eye irritation.

H336 – May cause drowsiness or dizziness.

Precautionary Statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces - No smoking.

P240 – Ground/bond container and receiving equipment.

P241 – Use explosion-proof electrical/ventilating/lighting equipment.

P242 – Use non-sparking tools.

P243 – Take precautionary measures against static discharge.

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 – Use only outdoors or in a well-ventilated area.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340+P312 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 – If eye irritation persists: Get medical advice/attention.

P370+P378 – In case of fire: Use water fog or fine spray, foam, carbon dioxide extinguishers, or dry chemical extinguishers for extinction.

P403+P233+P235 – Store in a well-ventilated area. Keep container tightly closed. Keep cool.

P501 – Dispose of contents and container to licensed, permitted incinerator, or other thermal destruction device.

Other Hazards: Not available.

Unknown Acute Toxicity: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemical Name</u> | <u>Wt. %</u> | <u>CAS#</u> |
|----------------------|--------------|-------------|
| Isopropyl alcohol | 99.9 | 67-63-0 |
| Water | 0.1 | 7732-18-5 |

COMMENTS: None.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Remove contaminated clothing. Wash with soap and water. Consult a physician if irritation persists.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician. Call your poison control center at 1-800-222-1222.

INHALATION: Remove affected person to fresh air. If not breathing, give artificial respiration. Get medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation, redness, pain.

SKIN: Not applicable.

SKIN ABSORPTION: No data available.

INGESTION: Irritation of mouth, throat, and stomach.

INHALATION: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

ADDITIONAL INFORMATION: After emergency actions, call the emergency medical information number on page 1 or a physician immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: NFPA Class IB

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, water spray or fog. Use of direct water stream may spread fire.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

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

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spill with absorbent material and water, if necessary.

LARGE SPILL: Extinguish all ignition sources. Provide plenty of fresh air. Contain spill. Avoid breathing vapor. Clean up spills immediately with absorbent material, observing precautions in the

Exposure Controls/Personal Protection section (see section 8). Place absorbed material in closed containers for disposal (see section 13).

7. HANDLING AND STORAGE

- GENERAL PROCEDURES:** Keep away from heat, sparks and flame.
- HANDLING:** For topical use only. Do not ingest. Follow all SDS/label precautions even after container is emptied because it may retain product residues.
- STORAGE:** Store in labeled, tightly sealed containers in a cool, well ventilated area.
- ELECTROSTATIC ACCUMULATION HAZARD:** Take precautionary measures against static discharges.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:
OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

| | | <u>EXPOSURE LIMITS</u> | | | | | |
|-------------------|-------------|------------------------|-------------------------|--------------------|-------------------------|---------------------|-------------------------|
| | | <u>OSHA PEL</u> | | <u>ACGIH TLV</u> | | <u>Supplier OEL</u> | |
| | | <u>ppm</u> | <u>mg/m³</u> | <u>ppm</u> | <u>mg/m³</u> | <u>ppm</u> | <u>mg/m³</u> |
| Isopropyl alcohol | TWA | 400 | | 200 ^[2] | | | |
| | STEL | NE ^[1] | | 400 | | | |

- TABLE FOOTNOTES:**
1. NE=Not established.
 2. A4: Not classifiable as a human carcinogen.

- ENGINEERING CONTROLS:** Not applicable.
- PERSONAL PROTECTIVE EQUIPMENT**
 - EYES AND FACE:** Safety glasses with side shields, or goggles.
 - SKIN:** Not applicable.
 - RESPIRATORY:** Not a significant route of exposure under ordinary circumstances.
 - PROTECTIVE CLOTHING:** Not applicable.
- WORK HYGIENIC PRACTICES:** Do not smoke in presence of vapor.
- OTHER USE PRECAUTIONS:** No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE:** Clear.
- PHYSICAL STATE:** Liquid.
- COLOR:** Colorless.
- ODOR:** Alcohol.
- ODOR THRESHOLD:** 40 ppm
- pH:** 7
- FREEZING POINT:** -88°C (-126°F)
- INITIAL BOILING POINT:** 82°C (180°F)
- FLASH POINT:** 13°C (56°F) TCC

EVAPORATION RATE: 1.7 (butyl acetate = 1)

FLAMMABILITY (Solid, Gas): Not applicable, this product is a liquid at room temperature.

FLAMMABLE LIMITS: 2% to 13%

VAPOR PRESSURE: 33 mm Hg at 20°C

VAPOR DENSITY: 2 (air=1)

RELATIVE DENSITY: 0.82

SOLUBILITY IN WATER: Miscible.

PARTITION COEFFICIENT (Log K_{ow}): No data available.

AUTOIGNITION TEMPERATURE: 400°C (752°F)

DECOMPOSITION TEMPERATURE: No data available.

VISCOSITY: Not available.

PERCENT VOLATILE: 100

10. STABILITY AND REACTIVITY

REACTIVITY: No dangerous reactions known.

CHEMICAL STABILITY: Stable.

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur.

CONDITIONS TO AVOID: Exposure to air, heat, sparks, open flames and other ignition sources.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong acids, strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Peroxides.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Inhalation.

ACUTE TOXICITY (ATE)

DERMAL LD₅₀: >2,000 mg/kg (rabbit)

ORAL LD₅₀: >2,000 mg/kg (rat).

INHALATION LC₅₀: >20 mg/L (rat)

CHRONIC TOXICITY

TARGET ORGANS: Central nervous system (CNS).

SENSITIZATION: Insufficient data available.

CARCINOGENICITY

IARC: Not listed as a carcinogen.

NTP: Not listed as a carcinogen.

OSHA: Not listed as a carcinogen.

OTHER: ACGIH: A4.

OTHER: No data available.

REPRODUCTIVE EFFECTS: No data available.

MUTAGENICITY: No data available.

SYNERGISTIC MATERIALS: No data available.

POTENTIAL HEALTH EFFECTS

EYES: Causes serious eye irritation.

SKIN: Not applicable.

SKIN ABSORPTION: No data available.

INGESTION: May cause central nervous system depression, with collapse, unconsciousness, coma and death in cases of severe overexposure.

ASPIRATION HAZARD: There is insufficient data available to classify this product as an aspiration hazard.

INHALATION: May cause central nervous system depression.

MEDICAL CONDITIONS AGGRAVATED: No data available.

GENERAL COMMENTS: Refer to Section 2 for additional information on potential health effects.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Isopropyl alcohol has low aquatic toxicity.

PERSISTENCE AND DEGRADABILITY: Isopropyl alcohol is readily biodegradable.

BIOACCUMULATIVE POTENTIAL: Not expected to bioaccumulate.

MOBILITY IN SOIL: Insufficient data available.

OTHER ADVERSE EFFECTS: No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Incinerate or dispose of in accordance with federal, state and local regulations.

EMPTY CONTAINER: Not applicable.

RCRA/EPA WASTE INFORMATION: Contains material(s) that are ignitable wastes as defined by RCRA.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Isopropanol (Isopropyl Alcohol)

TECHNICAL NAME: Isopropyl Alcohol

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1219

PACKING GROUP: II

LABEL: Flammable Liquid.

REPORTABLE QUANTITY (RQ) UNDER CERCLA: >600 gal

OTHER SHIPPING INFORMATION: Original product packaging is labeled, marked, and approved for ground shipments only.

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Isopropanol (Isopropyl Alcohol)

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1219

PACKING GROUP: II

LABEL: Flammable Liquid.

OTHER SHIPPING INFORMATION: Original product packaging is labeled, marked, and approved for ground shipments only.

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Isopropanol (Isopropyl Alcohol)

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1219

PACKING GROUP: II

PLACARDS: Consult applicable regulations governing air shipments.

LABEL: Flammable Liquid (Class 3) label required when shipped by air.

IATA NOTE: Original product packaging is not approved for air shipment. Consult applicable regulations for packaging requirements and quantity limitations.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: Yes. **PRESSURE GENERATING:** No. **REACTIVITY:** No. **ACUTE:** Yes.
CHRONIC: No.

313 REPORTABLE INGREDIENTS: Ingredient 2 is reportable.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: Isopropyl alcohol has an RQ of 5000 lbs.

REPORTABLE SPILL QUANTITY: >600 gals

RCRA STATUS: See section 13.

MEXICO

Regulated for transportation.

STATE REGULATIONS

MASSACHUSETTS

Isopropyl alcohol is named on the Massachusetts Substance List.

CALIFORNIA

PROPOSITION 65 STATEMENT: This product contains no ingredients known to the state of California to cause cancer, birth defects, or other reproductive harm.

16. OTHER INFORMATION

| HMIS RATINGS: | |
|----------------------|---|
| HEALTH: | 1 |
| FLAMMABILITY: | 3 |
| REACTIVITY: | 0 |
| PERSONAL PROTECTION: | B |

SDS Revision Date: August 31, 2020