



Signal Word

Danger

Hazard Statements

H225 - Highly flammable liquid and vapor
 H320 - Causes eye irritation
 H336 - May cause drowsiness and dizziness

Precautionary Statements

P264 - Wash hands thoroughly after handling
 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
 P271 - Use only outdoors or in a well-ventilated area
 P233 - Keep container tightly closed
 P501 - Dispose of contents/container to an approved waste disposal plant
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 P240 - Ground/Bond container and receiving equipment
 P242 - Use only non-sparking tools
 P243 - Take precautionary measures against static discharge
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P403 + P235 - Store in a well-ventilated place. Keep cool
 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
 P102 - Keep out of reach of children

Other hazards

No hazard expected under normal conditions of use

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	CAS No.	Weight %	Classification (Reg. 1272/2008)	Hazard Statements
Isopropyl alcohol	67-63-0	100	Flam. Liq. 2 STOT SE 3	H319 H335 H336 H225

Full text of H- statements: see section 16

4. FIRST AID MEASURES

Description of first-aid measures

**Film Remover, Thermal Head Cleaner, 1/4
inch Tape Drive Cleaning Solution**

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin contact	Wash off immediately with soap and plenty of water
Inhalation	Move to fresh air, Get medical attention immediately if symptoms occur
Ingestion	Rinse mouth with water and afterwards drink plenty of water or milk

Most important symptoms and effects, both acute and delayed

Acute toxicity

Eyes	Irritating to eyes
Skin	Does not cause skin irritation or sensitization. Repeated exposure may cause skin dryness or cracking
Inhalation	May cause irritation
Ingestion	May be harmful if swallowed

Main symptoms	May cause central nervous system depression Gastrointestinal discomfort
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Indication of immediate medical attention and special treatment needed

Protection of first-aiders	No special protective equipment required
Notes to physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	
Unsuitable extinguishing media	No information available

Special hazards arising from the substance or mixture

In the event of fire, cool tanks with water spray

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other information

Flammable properties	Flammable liquid
Flash point	12 °C / 53 °F

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors or mists, Ensure adequate ventilation, Remove all sources of ignition, For personal protection see section 8

Environmental precautions

No special environmental precautions required

Methods and material for containment and cleaning up

Methods for containment	Contain and collect spillage 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)
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Reference to other sections

See Section 12 for additional information

**Film Remover, Thermal Head Cleaner, 1/4
inch Tape Drive Cleaning Solution**

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Keep away from heat, sparks and open flame. No smoking
Avoid contact with skin and eyes

Hygiene measures Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions Keep containers tightly closed in a dry, cool and well-ventilated place
Keep away from heat and sources of ignition

Incompatible products Acid anhydrides, Strong oxidizing agents, Organometallic compounds, Isocyanates, Ethylene oxide

Specific end uses

Cleaner / Solvent

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL
Isopropyl alcohol	STEL 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³

Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment (PPE)

Respiratory protection None under normal use conditions. Organic vapour respirator for large spills.
Eye/Face protection Safety glasses with side-shields
Hand protection Rubber gloves, Polyvinylchloride (PVC)

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear	Odor	Alcohol
Odor threshold	22 ppm	Physical state	Liquid
pH	7	Color	Colorless
Flash point	12 °C / 53 °F	Method	Tag closed cup
Boiling point/range	83 °C / 181 °F	Softening point	Not applicable
Autoignition temperature	399 °C / 750 °F		
Volatility	100%(Vol.)		
Volatile organic compounds	790 g/L		
Flammability Limits in Air	Upper 13%	Lower	2%
Vapor pressure	20 mmHg @ 332 °C		
Vapor density	2.07 (air = 1)		
Water solubility	Completely soluble		

Viscosity	No information available
Partition coefficient	No information available
Evaporation rate	2.4 (n-butylacetate=1)
Melting point/range	Not applicable
Freezing point	- 89 °C
Decomposition temperature	Not determined
Specific gravity	0.79 @ 20 °C

Other information

Explosive properties Not explosive

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

Hazardous reactions	None under normal processing
Hazardous polymerization	Hazardous polymerization does not occur

Conditions to avoid

Heat, flames and sparks, Take precautionary measures against static discharges

Incompatible materials to avoid

Acid anhydrides, Strong oxidizing agents, Organometallic compounds, Isocyanates, Ethylene oxide

Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product Information

No product level data available

Irritation Irritating to eyes

Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Isopropyl alcohol	5045 mg/kg (Rat)	4059 mg/kg (Rabbit)	72600 mg/m ³ (Rat) 4 h

Chronic toxicity

Sensitization	Not a sensitizer
Neurological Effects	No information available
Target organ effects	No information available

CMR Effects

Mutagenic effects	Not determined
Reproductive toxicity	No information available
Carcinogenicity	Contains no ingredient listed as a carcinogen

Other toxic effects

Aspiration Hazard No information available

12. ECOLOGICAL INFORMATION

Toxicity

Acute Aquatic Toxicity On available data, substance is not harmful to aquatic life.
Chronic Aquatic Toxicity On available data, substance is not harmful to aquatic life.

Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Isopropyl alcohol	1000 mg/L EC50 96 h (Desmodesmus subspicatus) 1000 mg/L EC50 72 h (Desmodesmus subspicatus)	LC50= 9640 mg/L Pimephales promelas 96 h LC50= 11130 mg/L Pimephales promelas 96 h LC50> 1400000 µg/L Lepomis macrochirus 96 h		EC50 = 13299 mg/L 48 h

Persistence and degradability

Readily biodegradable

Bioaccumulative potential

Bioaccumulation is unlikely

Mobility in soil

Insoluble in water

Component Information

Chemical Name	log Pow
Isopropyl alcohol	0.05

Other adverse effects

Presents little or no hazard to the environment

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Waste Disposal Methods This material should be disposed of as a hazardous waste in the United States (D001 EPA code) and Canada.
 Small quantity exemptions may apply.
 This material should be disposed of using fuels blending, solvent recycling or incineration treatment methods.

Contaminated packaging No special precautions are needed in handling this material

California Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol	Toxic Ignitable

14. TRANSPORT INFORMATION

Subject to regulation as noted below
 Exceptions may apply

SDS # : D-0550

**Film Remover, Thermal Head Cleaner, 1/4
inch Tape Drive Cleaning Solution**

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H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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