

Identification

GHS Product Identifier

Trade name: Max Pro Isopropyl Alcohol Precision Cleaner

Product code: 3467

Recommended use of the chemical and restriction on use

Electronics cleaner

Supplier's details

Max Pro P.O. Box 9962

Ft Lauderdale FL USA 33310

Tel.: 954-972-3338

Emergency phone number

CHEMTREC 24 Hour Emergency Response

USA & Canada 800-424-9300

2 Hazard(s) identification

Classification of the substance or mixture

Physical Hazards

Flammable aerosols Category 1

Gases under pressure Liquefied gas

Health Hazards

Serious eye damage/eye irritation Category 2

Specific target organ toxicity,

single exposure Category 3 narcotic effects

Aspiration hazard Category 1

Environmental hazards

Not classified.

OSHA defined hazards

Not classified.

GHS label elements

Danger









Extremely flammable aerosol

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Contains gas under pressure; may explode if heated

May be fatal if swallowed and enters airways

Causes serious eye irritation

May cause drowsiness or dizziness

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

Do NOT induce vomiting.

IF eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Dispose of contents/container to in accordance with local/regional/national regulations.

Other hazards which do not result in classification

PREVENTION

Do not apply while equipment is energized. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area.

HNOC

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3 Composition/information on ingredients

Description	CAS Number EINECS Number	%	Note
2-Propanol	67-63-0	60 - 70	Isopropyl Alcohol purity no less than 99.5%
1,1-Difluoroethane, liquefied, under pressure	75-37-6	30 - 40	

4 First-aid measures

Description of necessary first-aid measures

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Call a POISON CENTER or

doctor/physician if you feel unwell.

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First-aid measures after skin contact: Rinse skin with water/shower. Get medical attention if irritation

develops and persists.

First-aid measures after 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.

First-aid measures after ingestion: Call a physician or poison control center immediately. Rinse mouth.

Do not induce vomiting. If vomiting occurs, keep head low so that

stomach content doesn't get into the lungs.

First-aid measures general: Ensure that medical personnel are aware of the material(s) involved,

and take precautions to protect themselves.

Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed, if necessary

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5 Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective actions for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Remove all possible sources of ignition in the surrounding area. Many gases are heavier than air and will spread along ground and

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collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Avoid breathing gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

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. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewer, basements or confined areas.

7 Handling and storage

Precautions for safe handling

Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid breathing gas. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Level 2 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8 Exposure controls/personal protection

Control parameters

Occupation exposure limits

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

ComponentsTypeValueIsopropyl AlcoholPEL980 mg/m³(CAS 67-63-0)

440 ppm

US. ACGIH Threshold Limit Values

Components Type Value

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Isopropyl Alcohol STEL 400 ppm

(CAS 67-63-0)

TWA 200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components Type Value

Isopropyl Alcohol STEL 1225 mg/m³

(CAS 67-63-0)

550 ppm

TWA 980 mg/m³

400 ppm

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

ComponentsTypeValue1,1-DifluoroethaneTWA 2700 mg/m^3

(CAS 75-37-6)

1000 ppm

Biological limit values

ComponentsValueDeterminantSpecimenSampling TimeIsopropyl Alcohol40 mg/lAcetoneUrine*

(CAS 67-63-0)

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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.

Individual protection measures

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection: Wear protective gloves such as: Neoprene. Polyvinyl alcohol (PVA).

Other: Wear suitable protective clothing.

Respiratory protection: If engineering controls are not feasible or if exposure exceeds the

applicable exposure limits, use a NIOSH-approved cartridge respirator

with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is

needed to determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations 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.

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

9 Physical and chemical properties

Physical and chemical properties

Physical state Liquid. Form Aerosol.

Color Clear. Colorless.
Odor Alcoholic.
Odor threshold Not available.
pH Not available.

Melting point/freezing point

Initial boiling point

-127.3 °F (-88.5 °C) estimated

and boiling range 179.6 °F (82 °C) estimated Flash point 54 °F (12.2 °C) Tag Closed Cup

Evaporation rate Very fast.

Flammability (solid, gas) Not available.

Flammability limit - lower (%) 2 % estimated

Flammability limit - upper (%) 12 % estimated

Vapor pressure 2056.7 hPa estimated

Vapor density 2 (air = 1)
Relative density 0.82 estimated
Solubility (water) Miscible.

Partition coefficient

(n-octanol/water) Not available.

Auto-ignition temperature 750.2 °F (399 °C) estimated

Decomposition temperature Not available. Viscosity (kinematic) Not available.

Percent volatile 100 %

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

Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials

Acids. Aldehydes. Alkalis. Amines. Chlorinated hydrocarbons. Halogens. Strong oxidizing agents. Isocyanates. Chlorine.

Hazardous decomposition products

Carbon oxides.

11 Toxicological information

Toxicological (health) effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

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Information on the likely routes of exposure

Ingestion Droplets of the product aspirated into the lungs through

ingestion or vomiting may cause a serious chemical pneumonia.

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Numerical measures of toxicity (such as acute toxicity estimates)

Product	Species	Test Results
Isopropyl Alcohol Precision Cleaner		
Acute		
Dermal		
LD50	Rabbit	18719.959 mg/kg estimated
Inhalation LC50	B.1	21548.1543 ppm, 4 hours estimated
2 - 1	Rat	52.9277 mg/l, 4 hours estimated
Oral		
LD50	Rat	6329.77 mg/kg estimated

^{*} Estimates for product may be based on additional component data not shown.

Interactive effects

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory sensitization Not available.

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 This product is not considered to be a carcinogen by IARC, ACGIH,

NTP, or OSHA.

Reproductive toxicity This product is not expected to cause reproductive or

developmental effects.

Specific target organ toxicity

single exposure May cause drowsiness and dizziness.

Specific target organ toxicity

repeated exposure Not classified.

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Aspiration hazard May be fatal if swallowed and enters airways. If aspirated into

lungs during swallowing or vomiting, may cause chemical

pneumonia, pulmonary injury or death.

Chronic effects Prolonged inhalation may be harmful.

12 Ecological information

Toxicity

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.

Product Isopropyl Alcohol Precision Cleaner Aquatic Acute		Species	Test Results
Crustacea	EC50	Daphnia	11817.8154 mg/l, 48 hours estimated
Flsh	LC50	Fish	10091.7188 mg/l, 96 hours estimated
Components		Species	Test Results
Isopropyl Alcohol (CAS 67-63-0)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	7550 - 13299 mg/l, 48 hours
Flsh	LC50	Fathead minnow (Pimephales prom	3200 mg/l, 96 hours elas)

Persistence and degradability

Readily biodegradable formula.

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

1,1-Difluoroethane 0.75 Isopropyl alcohol 0.05

Mobility in soil

No data available.

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.

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13 Disposal considerations

Disposal methods

Disposal of waste from If discarded, this product is considered a RCRA ignitable waste,

residues / unused products D001. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not

puncture, incinerate or crush. Dispose in accordance with all

applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

Contaminated packaging Empty containers should be taken to an approved waste

handling site for recycling or disposal. Since emptied

containers may retain product residue, follow label warnings

even after container is emptied.

14 Transport information

UN Number

UN1950

UN Proper Shipping Name

Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1

Packing group, if applicable

Not applicable.

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82

Packaging exceptions 306

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Packaging non bulk None

Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

Environmental hazards No. ERG Code 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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Other Information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, LIMITED QUANTITY

Transport hazard class(es)

Class 2 Subsidiary risk -

Packing group Not applicable.

Environmental hazards

Marine pollutant No.

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200. All components

are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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

Not regulated.

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

1,1-Difluoroethane (CAS 75-37-6)

Safe Drinking Water Act (SDWA)

Not regulated.

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Food and Drug Administration (FDA)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Immediate Hazard - Yes
Hazard categories Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - Yes

Reactivity Hazard - No

SARA 302 Extremely

hazardous substance No

US State Regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

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

1,1-Difluoroethane (CAS 75-37-6)

Isopropyl alcohol (CAS 67-63-0)

US. Massachusetts RTK - Substance List

1,1-Difluoroethane (CAS 75-37-6)

Isopropyl alcohol (CAS 67-63-0)

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

Isopropyl alcohol (CAS 67-63-0)

US. Rhode Island RTK

1,1-Difluoroethane (CAS 75-37-6)

US. California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*} A "Yes" indicates that all components of this product comply 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).

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16 Other information

Other information

HMIS® ratings Health: 1

Flammability: 4
Physical hazard: 0
Personal protection: B

NFPA ratings Health: 1

Flammability: 4 Instability: 0

NFPA ratings



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