

ALCOHOL WIPES FOR ELECTRONICS

8241-TUB & SOFT PACK

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name:

Alcohol Wipes for Electronics (tub format)

OR

IPA 70/30 Presaturated Wipes for Electronics (soft pack format)

SDS Code: 8241-Tub, 8241-Soft Pack**Related Part #** 8241-T, 8241-175

Recommended Use and Restriction on Use

Use: Cleaning wipes for electronics and high technology components**Uses Advised Against:** In states with VOC limits for consumer products (CA, IL, IN, MI, OH, CT, DE, ME, MD, MA, NH, NJ, NY, PA, RI, VT, VA, DC, UT), use as an electronic cleaner only. Not for use on monitor screens or glass with anti-glare coatings

Details of Manufacturer or Importer

ManufacturerMG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADAMG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA**☎** +1-800-340-0772**FAX** +1-800-340-0773**E-MAIL** support@mgchemicals.com**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA—Call CHEMTREC at **+1-800-424-9300****For emergencies involving the transport of dangerous goods;** 24/7 service
CANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

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Section 2: Hazard(s) Identification



Classification of Hazardous Chemical

GHS Categories

Criteria	Category	Signal Word	Pictograms
Flammable Liquid	2	Danger	Flame
Eye irritation Specific Target Organ Toxicity Single Exposure	2A 3	Warning Warning	Exclamation Exclamation

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories rankings do not allow comparisons between classes.

Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapor
	H319: Causes serious eye irritation H336: May cause drowsiness or dizziness
Prevention	Precautionary Statements
P210	Keep away from heat, sparks, open flames, hot surfaces, and other sources of ignition. No smoking.
P261	Avoid breathing vapors.
P271	Use only outdoors or in well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye protection.

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Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
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.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P302 + P353	IF ON SKIN: Rinse skin with water.
Storage	Precautionary Statements
P403 + P235	Store in well-ventilated place. Keep cool.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
67-63-0	propan-2-ol ^{a)}	70%
7732-18-5	water	30%

a) Commonly known as isopropyl alcohol (IPA)

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Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	<i>irritation, tearing, redness, pain</i>
Response	Rinse cautiously with water for 20 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN	P302 + P353
Immediate Symptoms	<i>redness, mild irritation</i>
Response	Rinse skin with water.
IF INHALED	P304 + P340, P312
Immediate Symptoms	<i>cough, dizziness, drowsiness, headaches, weakness</i>
Response	Remove person to fresh air and keep comfortable for breathing. If feeling unwell: Call a POISON CENTRE/doctor.
IF SWALLOWED	P301 + P330 + P331
Immediate Symptoms	<i>Low toxicity: nausea, dizziness, weakness, headaches</i>
Response	Rinse mouth. Do NOT induce vomiting.

Section 5: Fire-Fighting Measures

Response	In case of fire: Use dry chemical, carbon dioxide, water fog, or chemical foam to extinguish.
Specific Hazards	Vapors may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.
Combustion Products	Produces carbon oxides (CO, CO ₂).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

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Personal Protection	See personal protection equipment in Section 8.
Precautions for Response	Remove or keep away all sources of ignition or extreme heat. Avoid breathing vapors.
Environmental Precautions	Not applicable
Containment Methods	Not applicable
Cleaning Methods	Collect wipes in a sealable, solvent-resistant container.
Disposal	Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention	Keep out of reach of children. Keep away from heat, sparks, open flames, hot surfaces, and other sources of ignition. No smoking. Avoid breathing vapors. Use only outdoors or in a well-ventilated area.
Handling	Wear protective gloves and eye protection. Wash hands thoroughly after handling.
Storage	Store in a well-ventilated area. Keep cool. RECOMMENDATION: Keep in a dry and clean area, away from incompatible substances.

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Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
propan-2-ol	ACGIH	200 ppm	400 ppm
	U.S.A. OSHA PEL	400 ppm	Not established
	Canada AB	200 ppm	400 ppm
	Canada BC	200 ppm	400 ppm
	Canada ON	200 ppm	400 ppm
	Canada QC	400 ppm	500 ppm

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database² and from suppliers' SDSs were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

Engineering Controls

Ventilation Keep airborne concentrations below occupational exposure limits (OEL).

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.
RECOMMENDATION: Use safety glasses with lateral protection (side shields).

Skin Protection Wear appropriate protective clothing to prevent skin contact.
RECOMMENDATION: For incidental contacts, use disposable nitrile or neoprene gloves, or other chemically resistant gloves.
Do NOT use latex rubber, polyvinyl alcohol (PVA) or PVC gloves.

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Respiratory Protection

For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Liquid, in solid mixture	Lower Flammability Limit	2%
Appearance	Colorless	Upper Flammability Limit	12%
Odor	Alcohol like	Vapor Pressure @20 °C	4.2 kPa [32 mmHg]
Odor Threshold	0.44 ppm	Vapor Density	2.1 (Air =1)
pH	Not available	Relative Density @25 °C	0.86-0.87
Freezing/Melting Point	-88 °C [-126 °F]	Solubility in Water	Fully miscible
Initial Boiling Point	≥81.8 °C [≥179 °F]	Partition Coefficient-n-octanol/water	Not available
Flash Point ^{a)}	18 °C [64 °F]	Auto-ignition Temperature	425 °C [797 °F]
Evaporation Rate	1.5 (ButAc = 1)	Decomposition Temperature	Not available
Flammability (solid, gas)	Flammable	Viscosity @20 °C	2.4 mPa·s [3.1 mm ² /s]

a) Tag closed cup value

ALCOHOL WIPES FOR ELECTRONICS**8241-TUB & SOFT PACK****Section 10: Stability and Reactivity**

Reactivity	At elevated temperatures, may react with aluminum and generate hydrogen gas.
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Avoid ignition sources, excessive heat, and incompatible substances.
Incompatibilities	Strong oxidizing agents, strong acids, strong bases, halogenated compounds, aluminum at temperatures ≥ 49 °C [≥ 120 °F]
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information**Summary of Effects and Symptoms by Routes of Exposure**

Eyes	Causes serious eye irritation, tearing, redness, or pain.
Skin	Causes mild skin irritation, redness, or dry skin.
Inhalation	May cause drowsiness or dizziness. Excessive exposure may cause cough, narcotic effects, weakness, and headaches.
Ingestion	Low toxicity: see inhalation symptoms.
Chronic	Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
propan-2-ol	3 600 mg/kg Rat	12 800 mg/kg Rabbit	16 000 ppm 8 h Rat

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier (M)SDSs were also consulted.

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ALCOHOL WIPES FOR ELECTRONICS**8241-TUB & SOFT PACK****Other Toxicological Effects**

Skin corrosion/irritation	Based on available data, the classification criteria are not met. Causes mild skin irritation based on Draize tests on rabbits.
Serious eye damage/irritation	Causes severe eye irritation: propan-2-ol is a severe irritant based on Draize tests on rabbits.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	Propan-2-ol is not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not met.
Teratogenicity (risk of fetus malformation)	Based on available data, the classification criteria are not met.
STOT-single exposure	Propan-2-ol can affect the central nervous system by inhalation causing drowsiness or dizziness.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

Based on available data, propan-2-ol does not meet the environmental toxicant classification with LC50 and EC50 >100 mg/L.

- Propan-2-ol has a minimal LC50 96 h of 9 640 mg/L for Pimephales promelas (fathead minnow); an EC50 24 h of 5 102 mg/L Daphnia magna (water flea); and an EC50 72 h of 2 000 mg/L Desmodismus subspicatus (green algae).

Acute Ecotoxicity

Based on available data, the classification criteria are not met.

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Chronic Ecotoxicity

Based on available data, the classification criteria are not met.

Biodegradability

The constituents are volatile.

Other Effects

Regulated Volatile Organic Content (VOC) = 70% (603 g/L)

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.

Section 14: Transport Information

Ground

Refer to TDG (Canadian Transportation of Dangerous Goods regulations) and **USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Cat. No. 8241-T, 8241-175

LIMITED QUANTITY



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Cat. No. 8241-T, 8241-175

LIMITED QUANTITY



UN number: UN3175
Shipping Name: SOLIDS CONTAINING FLAMMABLE LIQUIDS, N.O.S. (isopropanol)
Class: 4.1
Packing Group: II
Marine Pollutant: No

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Sea

Refer to IMDG Regulations.

Cat. No. 8241-T, 8241-175

LIMITED QUANTITY



UN number: UN3175

Shipping Name: SOLIDS CONTAINING
FLAMMABLE LIQUIDS, N.O.S.
(isopropanol)

Class: 4.1

Packing Group: II

Marine Pollutant: No

Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

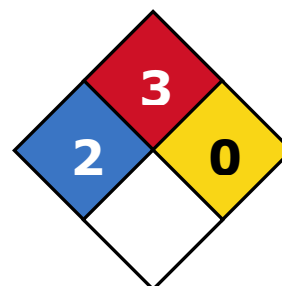
USA

Other Classifications

HMIS® RATING

HEALTH:	* 2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

ALCOHOL WIPES FOR ELECTRONICS**8241-TUB & SOFT PACK****CAA** (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains up to 70% propan-2-ol (CAS# 67-63-0) which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity).

This product does not contain any of the listed substances.

Europe**RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronic equipment and is therefore not governed by this regulation.

ALCOHOL WIPES FOR ELECTRONICS**8241-TUB & SOFT PACK****Section 16: Other Information**

SDS Prepared by Michel Hachey
Date of Revision 25 September 2018
Supersedes 01 March 2018

Reason for Changes: Adding new product identifier for soft pack and changing product name.

Reference

- 1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
ECHA	European Chemicals Agency
EU	European Union
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

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Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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