

8242-WIPES

LCD CLEANING WIPES

Safety Data Sheet

Section 1: Product and Company Identification

Product Identifier and Other Means of Identification

Product Identifier: 8242-Wipes**Other Means of Identification:** LCD Cleaning Wipes**Related Part #** 8242-WX25, 8242-RTF, 8242-RTS

Recommended Use and Restriction on Use

Use: For cleaning LCD screens**Uses Advised Against:** Not applicable

Details of Manufacturer or Importer

Manufacturer

MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

MG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

PHONE +1-800-340-0772**FAX** +1-800-340-0773**E-MAIL** support@mgchemicals.com**WEB** www.mgchemicals.com**PHONE** +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 Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**

(Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 serviceCANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

Section 2: Hazards Identification
Classification of Hazardous Chemical
GHS Categories

This product is not regulated according to HCS 2012 and WHMIS 2015 classification criteria.

Label Elements

Signal Word	<i>None Mandated</i>
Pictograms	Hazard Statements
<i>None mandated</i>	None

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
None	None	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
67-63-0	propan-2-ol ^{a)}	3-5%

a) Commonly known as isopropyl alcohol (IPA)

8242-WIPES**LCD CLEANING WIPES****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>low toxicity: mild irritation, redness</i>
Response	Rinse cautiously with water for 15 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
IF ON SKIN	P302 + P353
Immediate Symptoms	<i>low toxicity: mild skin irritation, redness</i>
Response	Rinse skin with water.
IF INHALED	P304 + P340
Immediate Symptoms	<i>low toxicity: mild nose, throat, and lung irritation</i>
Response	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
IF SWALLOWED	P301 + P330
Immediate Symptoms	<i>low toxicity: headache, nausea, or muscular pain.</i>
Response	Rinse mouth. Do NOT induce vomiting.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use extinguishing media suitable for surrounding materials.
Specific Hazards	Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires. Prevent fire-fighting wash from entering waterway or sewer system.
Combustion Products	Produces carbon oxides (CO, CO ₂).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

8242-WIPES**LCD CLEANING WIPES****Section 6: Accidental Release Measures**

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 Methods	Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Avoid breathing vapors.
Handling	Wear protective gloves, 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.

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: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH1, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the 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 the 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: Use of protective gloves in butyl rubber, nitrile rubber, or other chemically resistant 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 your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is 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	Solid, containing liquid	Lower Flammability Limit	Not available
Appearance	Colorless	Upper Flammability Limit	Not available
Odor	Alcohol-like	Vapor Pressure @20 °C	Not available
Odor Threshold	Not available	Vapor Density	2.1 (Air =1)
pH	Not available	Relative Density @25 °C	0.992
Freezing/Melting Point	Not available	Solubility in Water	Fully miscible
Initial Boiling Point	≥93.5 °C [≥200 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point ^{a)}	>51 °C [124 °F]	Auto-ignition Temperature	425 °C [797 °F]
Evaporation Rate	1.5 (ButAc = 1)	Decomposition Temperature	Not available
Flammability	Non Flammable	Viscosity @20 °C	<2.4 mPa·s [$<3.1 \text{ mm}^2/\text{s}$]

a) Closed cup value

8242-WIPES**LCD CLEANING WIPES****Section 10: Stability and Reactivity**

Reactivity	Not available
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
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	Low toxicity: May cause mild eye irritation or redness.
Skin	Low toxicity: May cause mild skin irritation or redness.
Inhalation	Low toxicity: May cause mild nose, throat, and lung irritation.
Ingestion	Low toxicity: May cause headache, nausea, or muscular pain.
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 SDSs were also consulted. According to supplier safety data sheet.

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8242-WIPES**LCD CLEANING WIPES****Other Toxicological Effects**

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
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	Based on available data, the classification criteria are not met.
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 Desmodemus subspicatus (green algae).

Acute Ecotoxicity

Available toxicity data does not meet classification thresholds

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8242-WIPES**LCD CLEANING WIPES****Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds

Biodegradability

The constituents are volatile.

Other Effects

Regulated Volatile Organic Content (VOC) = $\leq 5\%$ [≤ 50 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-WX25, 8242-RTF, 8242-RTS

NOT REGULATED as per
US.DOT. Special Provision 47
TDG Special Provision 56

NOTE: **Net Fill** of 2 ml per
packet

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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8242-WIPES**LCD CLEANING WIPES****Air****Refer to IMDG regulations.**

Cat. No. 8241-WX25, 8242-RTF, 8242-RTS

NOT REGULATED as per
Special Provisions A46NOTE: **Net Fill** of 2 ml per packet**UN number:** UN3175**Shipping Name:** SOLIDS CONTAINING
FLAMMABLE LIQUIDS, N.O.S. (isopropanol)**Class:** 4.1**Packing Group:** II**Marine Pollutant:** No

Special Provision A46: Mixtures of solids which are not subject to these Regulations and flammable liquids may be transported under this entry without first applying the classification criteria of Division 4.1, providing there is no free liquid visible at the time the substance is packaged and the packaging must pass a leakproofness test at the Packing Group II level. Small inner packagings consisting of sealed packets or articles containing less than 10 mL of a Packing Group II or III flammable liquid absorbed into a solid material are not subject to these Regulations provided there is no free liquid in the packet or article.

Sea**Refer to IMDG regulations.**

Cat. No. 8241-WX25, 8242-RTF, 8242-RTS

NOT REGULATED as per
Special Provisions 216NOTE: **Net Fill** of 2 ml per packet**UN number :** UN3175**Shipping Name :** SOLIDS
CONTAINING FLAMMABLE LIQUIDS,
N.O.S. (isopropanol)**Class :** 4.1**Packing Group :** II**Marine Pollutant :** No

Special Provision 216: Mixtures of solids which are not subject to the provisions of this Code and flammable liquids may be transported under this entry without first applying the classification criteria of class 4.1, provided there is no free liquid visible at the time the substance is loaded or at the time of the packaging or cargo transport unit is closed. Each cargo transport unit shall be leakproof when used as a bulk container. Sealed packets and articles containing less than 10 mL of a packing group II or III flammable liquid absorbed into a solid material are not subject to the provisions of this Code provided there is no free liquid in the packet or article.

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)**

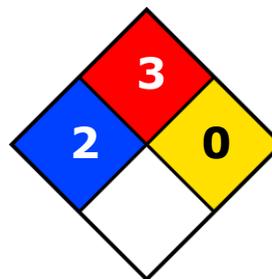
All hazardous ingredients are listed on the DSL.

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)

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 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 substances on the California Proposition 65 list.

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8242-WIPES**LCD CLEANING WIPES****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 electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

SDS Prepared by	MG Chemicals' Regulatory Department
Date of Revision	06 March 2020
Supersedes	28 November 2019
Reason for Changes:	Update to the emergency phone number information.

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®)

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8242-WIPES**LCD CLEANING WIPES****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

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.

Email: support@mgchemicals.com

Mailing Addresses *Manufacturing & Support*
1210 Corporate Drive
Burlington, Ontario, Canada
L7L 5R6

Head Office
9347-193rd Street
Surrey, British Columbia, Canada
V4N 4E7

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