



Quality System Certified to ISO 9001:2008

SAI Global File #004008

Burlington, Ontario, Canada

OPTICAL WIPE

8243-WIPES

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Optical Wipe

**SDS Code:** 8243-Wipes

**Related Part #** 8243-W, 8243-WX25

### Recommended Use and Restriction on Use

**Use:** For cleaning optical lenses, eye glasses, goggles, and other optics

**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

**TEL** +1-800-340-0772

**TEL** +1-905-331-1396

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**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)

**E-MAIL** [info@mgchemicals.com](mailto:info@mgchemicals.com)

**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)

**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number

**For hazardous material incidents ONLY**—leaks, spills, fires, exposures or accidents  
USA or CANADA: Call CHEMTREC ☎: **+1-800-424-9300**

**For emergencies involving dangerous goods;** Collect 24/7  
CANADA: Call CANUTEC ☎: **+1-613-996-6666** or **\*666** on cellular phones

**OPTICAL WIPE**

**8243-WIPES**

**Section 2: Hazards Identification**

**Classification of Hazardous Chemical**

**GHS Categories**

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

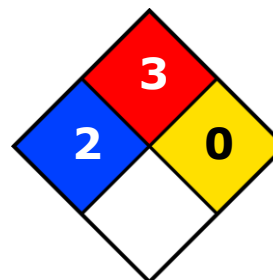
*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories rankings do not allow comparisons between classes.

**Other Classifications**

**HMIS® RATING**

|                             |          |
|-----------------------------|----------|
| <b>HEALTH:</b>              | <b>2</b> |
| <b>FLAMMABILITY:</b>        | <b>3</b> |
| <b>PHYSICAL HAZARD:</b>     | <b>0</b> |
| <b>PERSONAL PROTECTION:</b> |          |

**NFPA® 704 CODES**



*Approximate HMIS and NFPA Risk Ratings Legend:*



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

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**OPTICAL WIPE**

**8243-WIPES**

**Label Elements**

|                                                                                   |                                                                                                                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal Word</b>                                                                | <b>WARNING</b>                                                                                                                   |
| <b>Pictograms</b>                                                                 | <b>Hazard Statements</b>                                                                                                         |
|  | H226: Flammable liquid and vapor                                                                                                 |
|  | H319: Causes serious eye irritation<br>H336: May cause drowsiness and dizziness                                                  |
| <b>Prevention</b>                                                                 | <b>Precautionary Statements</b>                                                                                                  |
| P210                                                                              | Keep away from heat/sparks/open flames/hot surfaces. 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/eye protection.                                                                                           |
| <b>Response</b>                                                                   | <b>Precautionary Statements</b>                                                                                                  |
| 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.       |
| <b>Storage</b>                                                                    | <b>Precautionary Statements</b>                                                                                                  |
| P403 + P235                                                                       | Store in well ventilated place. Keep cool.                                                                                       |
| <b>Disposal</b>                                                                   | <b>Precautionary Statements</b>                                                                                                  |
| P501                                                                              | Dispose of contents/container in accordance to local/regional/international regulations.                                         |

*Section continued on the next page*

**OPTICAL WIPE**
**8243-WIPES**
**Other Hazards**

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

**Section 3: Hazardous Ingredients**

| CAS #   | Chemical Name             | %(weight) |
|---------|---------------------------|-----------|
| 67-63-0 | propan-2-ol <sup>a)</sup> | 22-26%    |

a) Commonly known as isopropyl alcohol (IPA)

**Section 4: First-Aid Measures**

| <i>Exposure Condition</i> | <i>GHS Code: Precautionary Statement</i>                                                                                                                                             |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF IN EYES</b>         | P305 + P351 + P338, P337 + P313                                                                                                                                                      |
| <b>Immediate Symptoms</b> | <i>irritation, redness, tearing</i>                                                                                                                                                  |
| <b>Response</b>           | Rinse cautiously with water for 15 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice/attention. |
| <b>IF ON SKIN</b>         | P302 + P353                                                                                                                                                                          |
| <b>Immediate Symptoms</b> | <i>redness, mild skin irritation</i>                                                                                                                                                 |
| <b>Response</b>           | Rinse skin with water.                                                                                                                                                               |
| <b>IF INHALED</b>         | P304 + P340 + P312                                                                                                                                                                   |
| <b>Immediate Symptoms</b> | <i>cough, dizziness, drowsiness, headaches, weakness</i>                                                                                                                             |
| <b>Response</b>           | Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.<br>If feeling unwell: Call a POISON CENTRE/doctor.                                     |
| <b>IF SWALLOWED</b>       | P301 + P330 + P331                                                                                                                                                                   |
| <b>Immediate Symptoms</b> | <i>nausea, dizziness, weakness, headaches</i>                                                                                                                                        |
| <b>Response</b>           | Rinse mouth. Do NOT induce vomiting.                                                                                                                                                 |

**OPTICAL WIPE****8243-WIPES****Section 5: Fire-Fighting Measures**

- Extinguishing Media** 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<sub>2</sub>).
- Fire-Fighter** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**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** Not applicable
- Cleaning** 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/sparks/open flames/hot surfaces. No smoking.  
Avoid breathing vapors. Use only outdoors or in a well-ventilated area.
- 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 ACGIH<sup>1</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>2</sup> and from suppliers' SDS 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 exposure limits.

**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.

*Section continued on the next page*

**OPTICAL WIPE**
**8243-WIPES**
**Respiratory Protection**

For over-exposures up to 10 x OEL of mist/vapors, 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**

|                                    |                          |                                  |                                      |
|------------------------------------|--------------------------|----------------------------------|--------------------------------------|
| <b>Physical State</b>              | Liquid, in solid mixture | <b>Lower Flammability Limit</b>  | 2%                                   |
| <b>Appearance</b>                  | Colorless                | <b>Upper Flammability Limit</b>  | 12%                                  |
| <b>Odor</b>                        | Alcohol like             | <b>Vapor Pressure @20 °C</b>     | Not available                        |
| <b>Odor Threshold</b>              | Not available            | <b>Vapor Density</b>             | 2.1 (Air =1)                         |
| <b>pH</b>                          | Not available            | <b>Specific Gravity @20 °C</b>   | 0.96 <sup>b)</sup>                   |
| <b>Freezing/Melting Point</b>      | Not available            | <b>Solubility in Water</b>       | Fully miscible                       |
| <b>Boiling Point <sup>a)</sup></b> | ≥82 °C [≥180 °F]         | <b>Partition Coefficient</b>     | Not available                        |
| <b>Flash Point <sup>a)</sup></b>   | 27 °C [81 °F]            | <b>Auto-ignition Temperature</b> | ≥425 °C [≥797 °F]                    |
| <b>Evaporation Rate</b>            | Not available            | <b>Decomposition Temperature</b> | Not available                        |
| <b>Flammability (solid, gas)</b>   | Not available            | <b>Viscosity @20 °C</b>          | ≤2.4 mPa·s [≤3.1 mm <sup>2</sup> /s] |

a) Tag closed cup value

b) Literature value

**OPTICAL WIPE****8243-WIPES****Section 10: Stability and Reactivity**

|                            |                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>          | At elevated temperatures, may react with aluminum and generate hydrogen gas.                                                                                               |
| <b>Chemical Stability</b>  | Chemically stable at normal temperatures and pressures                                                                                                                     |
| <b>Conditions to Avoid</b> | Avoid Ignition sources, excessive heat, and incompatible substances.                                                                                                       |
| <b>Incompatibilities</b>   | Strong oxidizing agents, strong acids, strong bases, halogenated compounds, aluminum at temperatures $\geq 49\text{ }^{\circ}\text{C}$ [ $>120\text{ }^{\circ}\text{F}$ ]. |
| <b>Polymerization</b>      | Will not occur                                                                                                                                                             |
| <b>Decomposition</b>       | Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.                                                               |

**Section 11: Toxicological Information****Routes of Exposure**

Eye Contact, Inhalation, Skin contact, and Ingestion

**Symptoms Summary**

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Causes serious eye irritation, tearing, redness                                                                      |
| <b>Skin</b>       | May cause mild skin irritation, redness, or dry skin.                                                                |
| <b>Inhalation</b> | May cause drowsiness or dizziness. Excessive exposure may cause narcotic effects, weakness, and headaches.           |
| <b>Ingestion</b>  | See inhalation symptoms.                                                                                             |
| <b>Chronic</b>    | Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort. |

**Acute Toxicity (Lethal Exposure Concentrations)**

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

Note: Toxicity data from the RTECS database<sup>2</sup> were consulted. The data from supplier (M)SDS were also consulted.



**OPTICAL WIPE****8243-WIPES****Other Toxicological Effects**

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

*Section continued on the next page*

**OPTICAL WIPE****8243-WIPES****Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds

**Biodegradability**

The constituents are volatile.

**Other Effects**

Regulated Volatile Organic Content (VOC) = 26% (250 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. 8243-W, 8243WX25

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

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

*FOR REFERENCE ONLY*

**UN number:** UN3175

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

**Class:** 4.1

**Packing Group:** II

**Marine Pollutant:** No

*Section continued on the next page*

**OPTICAL WIPE****8243-WIPES****Air****Refer to ICAO-IATA regulations.**

Cat. No. 8243-W, 8243WX25

**NOT REGULATED** as per  
Special Provisions A46NOTE: **Net Fill** of 2 ml per  
packet*FOR REFERENCE ONLY***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. 8243-W, 8243WX25

**NOT REGULATED** as per  
Special Provisions 216NOTE: **Net Fill** of 2 ml per  
packet*FOR REFERENCE ONLY***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.

**Section 15: Regulatory Information****Canada****WHMIS 1988 Classification**

D2B – Toxic Material (Eye Irritant)

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

All hazardous ingredients are listed on the DSL.

**Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

**Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

*Section continued on the next page*

**OPTICAL WIPE****8243-WIPES****USA****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 26% 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, Sept 2, 2011 revision, USA).

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, or PBDE's, 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**

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| <b>SDS Prepared by</b>     | Michel Hachey                                              |
| <b>Date of Revision</b>    | 02 July 2015                                               |
| <b>Supersedes</b>          | 25 May 2015                                                |
| <b>Reason for Changes:</b> | Minor correction to transport section to increase clarity. |

*Section continued on the next page*

**OPTICAL WIPE****8243-WIPES****Reference**

- 1) ACGIH 2013 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 (2013).
- 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                                              |

**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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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

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