

SAFETY DATA SHEETS

This SDS packet was issued with item:

070850602

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070850610 070850628 070855668 078586324 078586340 078586365

Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 11.28.2017

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pdCARE Surface Disinfectant Cleaner

SECTION 1: Identification

Product identifier

Product name: pdCARE Surface Disinfectant Cleaner

Product code: 070850602, 070850610, 070850628, 070855668,
078586324, 078586340, 078586365, 0018882F

Recommended use of the product and restriction on use

Relevant identified uses: Hard surface cleaner and disinfectant.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

Supplier

Patterson Dentaire Canada Inc.
1205 boul Henri-Bourassa West
Montreal (Québec) H3M 3E6
+1 514-745-4040
www.pattersoncompanies.com

Emergency telephone number:

Canada

CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard identification

GHS classification:

Flammable liquids, category 3

Skin irritation, category 2

Eye irritation, category 2A

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

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H226 Flammable liquid and vapor

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ventilating/light/equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P280 Wear protective gloves/protective clothing/eye protection/face protection

P264 Wash skin thoroughly after handling

P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower

P370+P378 In case of fire: Use agents recommended in section 5 for extinction

P321 Specific treatment (see supplemental first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse

P302+P352 If on skin: Wash with soap and water

P332+P313 If skin irritation occurs: Get medical advice/attention

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P403+P235 Store in a well ventilated place. Keep cool

P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 121-54-0	Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	0.28
CAS number: 7732-18-5	Water	70-80
CAS number: 67-63-0	Isopropanol	17.2
CAS number: 111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	1-5

Additional Information: None

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Not determined or not available.

After inhalation:

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Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Take off all contaminated clothing

Gently blot or brush away excess product

Wash with plenty of lukewarm, gently flowing water

Get medical advice if skin irritation occurs or you feel unwell

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open

Remove contact lenses, if present and easy to do so

Continue rinsing for 15-20 minutes

Get medical advice if eye irritation persists

After ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not available.

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

Special protective equipment for firefighters:

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Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
Canada	Isopropanol	67-63-0	Alberta TWA 8-hr: 492 mg/m ³ (200 ppm); STEL 15-min: 984 mg/m ³ (400 ppm)
	Isopropanol	67-63-0	British Columbia TWA 8-hr: 200 ppm; STEL 15-min 400 ppm
	Isopropanol	67-63-0	Manitoba TLV-TWA 8-hr: 200 ppm; STEL 15-min 400 ppm
	Isopropanol	67-63-0	Ontario TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm
	Isopropanol	67-63-0	Quebec TWA 8-hr: 983 mg/m ³ (400 ppm); STEL 15-min: 1,230 mg/m ³ (500 ppm)
	Isopropanol	67-63-0	Saskatchewan TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm
	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	Alberta OELs - 8-Hour TWA Exposure Limit: 20 ppm / 97 mg/m ³
	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	British Columbia OELs - 8-Hour TWA Exposure Value: 20 ppm
	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	Manitoba OELs - 8-Hour Exposure Limit (TLV-TWA): 20 ppm
	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	Ontario OELs - 8-Hour TWA Exposure Value (TWA): 20 ppm
	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	Quebec OELs - 8-Hour TWA Exposure Value: 20 ppm / 97 mg/m ³
	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	Saskatchewan OELs - 8 hour average contamination limit: 20 ppm
	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	Saskatchewan OELs - 15 minute average contamination limit: 30 ppm

Biological limit values:

Substance	Identifier	Determinant	Sampling time	Permissible limits
Isopropanol	67-63-0	Acetone	End of shift at end of workweek.	40 mg/L

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and

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mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, color):	Clear Liquid
Odor:	Alcohol
Odor threshold:	0.001 ppm (ethylene glycol monobutyl ether)
pH-value:	11.0 - 12.49
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	Not determined or not available.
Flash point:	28.3C (83F)
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	12.7%
Explosion limit lower:	2%
Vapor pressure:	43.3 mmHg @ 20C (isopropanol)
Vapor density:	2.1 (isopropanol)
Density:	Not determined or not available.
Relative density:	0.972
Solubilities:	Not determined or not available.
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.

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Oxidizing properties

Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	oral	LD50 - Rat - 470 mg/kg
	dermal	LD50 - Rabbit - 220 mg/kg
	inhalation	LC50 - Rat - 450 ppm - 4H
Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	oral	LD50 - Mouse - 338 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Irritating to the skin.

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Name	Result
Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Causes severe skin burns and eye damage.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Isopropanol	Causes serious eye irritation.
Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Irritating effect on the eyes.

Respiratory or skin sensitization

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

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Isopropanol	Group 3 - Not classifiable as to its carcinogenicity to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

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

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data:

No data available.

Substance data:

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Name	Result
Isopropanol	Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

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

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

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Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN1987
UN proper shipping name	Alcohols (Isopropanol)
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1987
UN proper shipping name	Alcohols (Isopropanol)
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL):

67-63-0	Isopropanol	Listed
111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Listed
121-54-0	Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Listed

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7732-18-5	Water	Listed
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Non-domestic substances list (NDSL): None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-2-0-0

HMIS: 2-2-0-0

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End of Safety Data Sheet



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pdCARE Surface Disinfectant Cleaner

SECTION 1: Identification

Product identifier

Product name: pdCARE Surface Disinfectant Cleaner

Product code: 070850602, 070850610, 070850628, 070855668,
078586324, 078586340, 078586365, 0018882F

Recommended use of the product and restriction on use

Relevant identified uses: Hard surface cleaner and disinfectant.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

Supplier

Patterson Companies, Inc.
1031 Mendota Heights Road
St. Paul, MN 55120
1-800-328-5536 Fax:1-651-686-9331
www.pattersoncompanies.com

Emergency telephone number:

United States

CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard(s) identification

GHS classification:

Flammable liquids, category 3

Skin irritation, category 2

Eye irritation, category 2A

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H226 Flammable liquid and vapor

H315 Causes skin irritation

H319 Causes serious eye irritation

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Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ventilating/light/equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P280 Wear protective gloves/protective clothing/eye protection/face protection

P264 Wash skin thoroughly after handling

P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower

P370+P378 In case of fire: Use agents recommended in section 5 for extinction

P321 Specific treatment (see supplemental first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse

P302+P352 If on skin: Wash with soap and water

P332+P313 If skin irritation occurs: Get medical advice/attention

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P403+P235 Store in a well ventilated place. Keep cool

P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 121-54-0	Diisobutylphenoxyethoxyethyltrimethylbenzylammonium chloride	0.28
CAS number: 7732-18-5	Water	70-80
CAS number: 67-63-0	Isopropanol	17.2
CAS number: 111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	1-5

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

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If symptoms develop or persist, seek medical attention
Take off all contaminated clothing
Gently blot or brush away excess product
Wash with plenty of lukewarm, gently flowing water
Get medical advice if skin irritation occurs or you feel unwell

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing for 15-20 minutes
Get medical advice if eye irritation persists

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors
Vapors can flow to distant ignition sources and flashback
Liquid is volatile and may generate an explosive atmosphere

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Shut off sources of ignition
Carbon monoxide and carbon dioxide may form upon combustion
Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedures:

- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing
- Beware of vapors accumulating to form explosive concentrations
- Vapors can accumulate in low areas

Environmental precautions:

- Should not be released into the environment
- Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

- Wear protective eye wear, gloves and clothing
- Use spark-proof tools and explosion-proof equipment
- Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
- Dispose of contents / container in accordance with local regulations

Reference to other sections:

- Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Take precautionary measures against electrostatic discharges.
- Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.
- Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Isopropanol	67-63-0	ACGIH TLV STEL 400 ppm
	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	ACGIH TLV TWA 20 ppm
	Isopropanol	67-63-0	ACGIH TLV TWA 200 ppm
United States (OSHA)	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	OSHA PEL TWA 50 ppm (240 mg/m ³)
	Isopropanol	67-63-0	OSHA PEL TWA 400 ppm, 980 mg/m ³
NIOSH	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	111-76-2	NIOSH REL TWA 5 ppm (24 mg/m ³)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Isopropanol	67-63-0	NIOSH IDLH 2,000 ppm
	Isopropanol	67-63-0	NIOSH STEL 500 ppm, 1,225 mg/m ³
	Isopropanol	67-63-0	NIOSH TWA 400 ppm, 980 mg/m ³

Biological limit values:

Substance	Identifier	Determinant	Sampling time	Permissible limits
Isopropanol	67-63-0	Acetone	End of shift at end of workweek.	40 mg/L

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear Liquid
Odor	Alcohol
Odor threshold	0.001 ppm (ethylene glycol monobutyl ether)
pH	11.0 - 12.49
Melting point/freezing point	Not determined or not available.

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Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	28.3C (83F)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	12.7%
Lower flammability/explosive limit	2%
Vapor pressure	43.3 mmHg @ 20C (isopropanol)
Vapor density	2.1 (isopropanol)
Density	Not determined or not available.
Relative density	0.972
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

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

Product data: No data available.

Substance data:

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Name	Route	Result
Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	oral	LD50 - Rat - 470 mg/kg
	dermal	LD50 - Rabbit - 220 mg/kg
	inhalation	LC50 - Rat - 450 ppm - 4H
Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	oral	LD50 - Mouse - 338 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Irritating to the skin.
Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Causes severe skin burns and eye damage.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Isopropanol	Causes serious eye irritation.
Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Irritating effect on the eyes.

Respiratory or skin sensitization

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

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Isopropanol	Group 3 - Not classifiable as to its carcinogenicity to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

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

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data:

No data available.

Substance data:

Name	Result
Isopropanol	Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

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

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

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Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not Regulated per alcohol exception (49CFR 173.150(e))
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN1987
UN proper shipping name	Alcohols (Isopropanol)
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1987
UN proper shipping name	Alcohols (Isopropanol)
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None

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SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

67-63-0	Isopropanol	Listed
111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Listed
121-54-0	Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Listed
7732-18-5	Water	Listed

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

67-63-0	Isopropanol	Listed
111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Not Listed
7732-18-5	Water	Not Listed
121-54-0	Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Not Listed

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed. None of the ingredients are listed.

Massachusetts Right to Know:

67-63-0	Isopropanol	Listed
7732-18-5	Water	Not Listed
111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Listed
121-54-0	Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Not Listed

New Jersey Right to Know:

67-63-0	Isopropanol	Listed
7732-18-5	Water	Not Listed
111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Listed
121-54-0	Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Not Listed

New York Right to Know:

67-63-0	Isopropanol	Listed
7732-18-5	Water	Not Listed
111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Listed
121-54-0	Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Not Listed

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Pennsylvania Right to Know:

67-63-0	Isopropanol	Listed
7732-18-5	Water	Not Listed
111-76-2	Ethylene Glycol Monobutyl Ether(2-Butoxyethanol)	Listed
121-54-0	Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride	Not Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-2-0-0

HMIS: 2-2-0-0

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End of Safety Data Sheet