

**Alcohol-free ScreenKleen, TouchScreen
Cleaning System**

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Alcohol-free ScreenKleen, TouchScreen Cleaning System**

Other means of identification : RR1291, RR1391, RR1491, RR44007

Recommended use of the chemical and restrictions on use

: Surface cleaner
Recommended restrictions: Not intended to be used on hands/face or body.

Chemical family : Mixture

**Name, address, and telephone number
of the supplier:**

Advantus Corporation

12276 San Jose Blvd., Suite 618
Jacksonville, FL, USA
32223

Supplier's Telephone # : (904) 482-0091

24 Hr. Emergency Tel # : (800) 424-9300 (CHEMTREC)

**Name, address, and telephone number of
the manufacturer:**

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Towelette/pad with clear, green liquid. Odorless.

This product is packaged and sold as a consumer product. For informational purposes, this product would have the following OSHA Hazcom 2012 and WHMIS 2015 classification.

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Not required

Hazard statement(s)

Not required

Precautionary statement(s)

Not required

Other hazards

Other hazards which do not result in classification:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals.

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SAFETY DATA SHEET**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

| <u>Chemical name</u> | <u>Common name and synonyms</u> | <u>CAS #</u> | <u>Concentration (% by weight)</u> |
|----------------------------|-------------------------------------|--------------|------------------------------------|
| 1-Methoxy-2-hydroxypropane | 1-Methoxy-2-Propanol alpha-PGME | 107-98-2 | 1.0 - 5.0 |
| 2-Propanol, 1-butoxy- | Propylene glycol monobutyl ether | 5131-66-8 | 0.1 - 1.0 |

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES**Description of first aid measures**

- Ingestion* : None required when used as intended. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- Inhalation* : None required when used as intended. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : None required when used as intended. If skin irritation or rash occurs: Get medical advice/attention.
- Eye contact* : If in eyes: Rinse cautiously with water for several minutes. If irritation persists, seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

- : Direct eye contact may cause slight or mild, transient irritation. May cause an allergic skin reaction (e.g. swelling, rash and eczema).

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing media**

- Suitable extinguishing media* : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
- Unsuitable extinguishing media* : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Burning may produce irritating, toxic and obnoxious fumes.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

Hazardous combustion products

- : Carbon oxides ;Other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

- Protective equipment for fire-fighters* : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.
- Special fire-fighting procedures* : Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Dike for water control.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

- : Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Sweep up or vacuum up spillage and collect in suitable container for disposal.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
 US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing mist or vapor. Keep containers tightly closed when not in use. Do not ingest or swallow.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Keep container tightly closed.

Incompatible materials : None known or reported by the manufacturer.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Exposure Limits:</u> | | | | | |
|----------------------------|----------------------|------------------|-------------|-----------------|-------------|
| | <u>Chemical Name</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
| | | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| 1-Methoxy-2-hydroxypropane | 50 ppm | 100 ppm | N/Av | N/Av | |
| 2-Propanol, 1-butoxy- | N/Av | N/Av | N/Av | N/Av | |

Exposure controls
Ventilation and engineering measures

- : Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection : None required under normal conditions.

Skin protection : None required under normal conditions.

Eye / face protection : None required under normal conditions.

Other protective equipment : None required under normal conditions.

General hygiene considerations

- : Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Towelette/pad with clear, green liquid.

Odour : Odorless

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Odour threshold : Not available.

pH : Not available.

Melting Point/Freezing point : Not available.

Initial boiling point and boiling range

: 100°C

Flash point : Not available.

Flashpoint (Method) : Not available.

Evaporation rate (BuAe = 1) : Not available.

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: Not applicable.

Upper flammable limit (% by vol.)

: Not applicable.

Oxidizing properties : Not applicable

Explosive properties : Not explosive

Vapour pressure : Not available.

Vapour density : Not available.

Relative density / Specific gravity

: Approximately 1.08

Solubility in water : insoluble

Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Not available.

Volatiles (% by weight) : Not available.

Volatile organic Compounds (VOC's)

: Not available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : This product is not reactive.

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : None known or reported by the manufacturer.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : NO
Routes of entry skin & eye : YES
Routes of entry Ingestion : NO
Routes of exposure skin absorption
 : NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

: Direct skin contact may cause slight or mild, transient irritation.

Sign and symptoms eyes

: Direct eye contact may cause slight or mild, transient irritation.

Potential Chronic Health Effects

: Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material

: Not expected to be a skin or respiratory sensitizer. May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals.

Specific target organ effects

: This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Medical conditions aggravated by overexposure

: None known.

Synergistic materials

: Not available.

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

| <u>Chemical name</u> | <u>LC₅₀(4hr)</u> <u>inh, rat</u> | <u>LD₅₀</u> | |
|----------------------------|--|------------------------|-----------------------------|
| | | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| 1-Methoxy-2-hydroxypropane | 15 000 ppm (55.3 mg/L) (vapour) | 4016 mg/kg | > 2000 mg/kg (No mortality) |
| 2-Propanol, 1-butoxy- | 650 ppm (no deaths) | >3200mg/kg | >2000mg/kg |

Other important toxicological hazards

: None known or reported by the manufacturer.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Not classified for hazards to the environment. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicity data:

| <u>Ingredients</u> | CAS No | Toxicity to Fish | | |
|----------------------------|-----------|-------------------------------|-------------------------|----------|
| | | LC50 / 96h | NOEC / 21 day | M Factor |
| 1-Methoxy-2-hydroxypropane | 107-98-2 | 20 800 mg/L (Fathead minnow) | > 1000 mg/L (estimated) | None. |
| 2-Propanol, 1-butoxy- | 5131-66-8 | 560mg/L (Poecilia Reticulata) | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Daphnia | | |
|----------------------------|-----------|-----------------------------|----------------------|----------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| 1-Methoxy-2-hydroxypropane | 107-98-2 | 23 300 mg/L (Daphnia magna) | 210 mg/L (estimated) | None. |
| 2-Propanol, 1-butoxy- | 5131-66-8 | 1000 mg/L (Daphnia magna) | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Algae | | |
|----------------------------|-----------|---------------------------------------|-------------------------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| 1-Methoxy-2-hydroxypropane | 107-98-2 | > 1000 mg/L/96hr (Green algae) | 160 mg/L/96hr (estimated) | None. |
| 2-Propanol, 1-butoxy- | 5131-66-8 | >1000mg/L (Selenastrum capricornutum) | 560mg/L (Selenastrum capricornutum) | None. |

Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential

: No data is available on the product itself.

| <u>Components</u> | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|---|--|--------------------------------------|
| 1-Methoxy-2-hydroxypropane (CAS 107-98-2) | - 0.49 (estimated) | 3.2 (calculated) |
| 2-Propanol, 1-butoxy- (CAS 5131-66-8) | 1.2 | 3.16 |

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

| Regulatory Information | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label |
|---|-----------|-------------------------|----------------------------|---------------|---|
| 49CFR/DOT | None. | Not regulated. | not regulated | none |  |
| 49CFR/DOT Additional information | None. | | | | |
| TDG | None. | Not regulated. | Not regulated | none |  |
| TDG Additional information | None. | | | | |
| IMDG | None. | Not regulated. | not regulated | none |  |
| IMDG Additional information | None. | | | | |
| ICAO/IATA | None. | Not regulated. | not regulated | none |  |
| ICAO/IATA Additional information | None. | | | | |

Special precautions for user : None known or reported by the manufacturer.

Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 : Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

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| <u>Ingredients</u> | CAS # | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical | |
|----------------------------|-----------|----------------|--|--|---|--------------------------|
| | | | | | Toxic Chemical | de minimus Concentration |
| 1-Methoxy-2-hydroxypropane | 107-98-2 | Yes | None. | None. | No | N/Ap |
| 2-Propanol, 1-butoxy- | 5131-66-8 | Yes | None. | None. | No | N/Ap |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | CAS # | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|----------------------------|-----------|---------------------------|------------------|-----------------------------|-----|-----|-----|-----|-----|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| 1-Methoxy-2-hydroxypropane | 107-98-2 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |
| 2-Propanol, 1-butoxy- | 5131-66-8 | No | N/Ap | No | No | No | Yes | Yes | No |

Canadian Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Information:

Components listed below are present on the following International Inventory list:

| <u>Ingredients</u> | CAS # | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|----------------------------|-----------|-----------------|----------------|-------------------|-----------------|-----------------|-------------|----------------|
| 1-Methoxy-2-hydroxypropane | 107-98-2 | 203-539-1 | Present | Present | (7)-97; (2)-404 | KE-23379 | Present | HSR001187 |
| 2-Propanol, 1-butoxy- | 5131-66-8 | 225-878-4 | Listed | Listed | Listed | Listed | Listed | Listed |

SECTION 16. OTHER INFORMATION
Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer

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Inh: Inhalation
 LC: Lethal Concentration
 LD: Lethal Dose
 MN: Minnesota
 N/Av: Not Available
 N/Ap: Not Applicable
 NIOSH: National Institute of Occupational Safety and Health
 NJ: New Jersey
 NTP: National Toxicology Program
 OECD: Organisation for Economic Co-operation and Development
 OSHA: Occupational Safety and Health Administration
 PA: Pennsylvania
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 RI: Rhode Island
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TLV: Threshold Limit Values
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
 2. International Agency for Research on Cancer Monographs, searched 2019.
 3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
 4. Safety Data Sheets from manufacturer.
 5. US EPA Title III List of Lists - June 2019 version.
 6. California Proposition 65 List - September 2019 version.
 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

| | |
|---|--|
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