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SECTION 1. IDENTIFICATION**Product identifier used on the label**: **WET + DRY, TWO STEP SCREENKLEEN****Other means of identification** : CT812, RR1205, RR1305, RR1261**Recommended use of the chemical and restrictions on use**: Surface/Screen cleaner
Recommended restrictions: Not intended to be used on hands/face or body.**Chemical family** : Mixture**Name, address, and telephone number
of the supplier:****Name, address, and telephone number of
the manufacturer:****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)

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION**Classification of the chemical**

Towellete / pad saturated with clear, colorless liquid. Solvent/alcohol odor.

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

Hazard classification:

Flammable solid -Category 1

Eye irritation - Category 2B

Label elements*Hazard pictogram(s)**Signal Word*

DANGER!

*Hazard statement(s)*Flammable solid.
Causes eye irritation.
May cause allergic skin reaction.

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Precautionary statement(s)

Keep away from heat, open flames and hot surfaces. - No smoking.
Ground and bond container and receiving equipment.
Use explosion-proof electrical and ventilating equipment.
Wash thoroughly after handling.
Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. If eye irritation persists: get medical advice/attention.
In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool.
Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Other hazards that 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.

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>
2-Propanol	Isopropyl alcohol	67-63-0	15.0 - 40.0
Alkyl Dimethyl Benzyl Ammonium Chloride	Not available.	68391-01-5	1.0 - 5.0

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* : Not an expected route of entry. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- Skin contact* : Get medical attention if irritation develops and persists. Wash off with soap and plenty of water.
- Eye contact* : For eye contact, flush with running water for at least 15 minutes. Obtain medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed

- : Causes eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Direct skin contact may cause temporary redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

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

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Suitable extinguishing media : Use water fog or fine spray, foams, carbon dioxide or 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

: Flammable solid May be ignited by open flames and sparks.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable solid.

Hazardous combustion products

: Carbon oxides

Special protective equipment and precautions for firefighters*Protective equipment for fire-fighters*

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

: Fight fires from a safe distance. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

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. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.

Environmental precautions : Do not allow material to contaminate ground water system. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece).

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): None.

SECTION 7. HANDLING AND STORAGE**Precautions for safe handling**

: Use only in well-ventilated areas. Do not ingest or swallow. Avoid breathing vapours. Wash thoroughly after handling. Keep away from heat, sparks and open flames.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Store away from incompatible materials. No smoking in the area.

Incompatible materials : Strong oxidizing agents; Strong acids.; Alkali metals; Aluminium.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
2-Propanol	200 ppm	400 ppm	400 ppm (980 mg/m ³)	N/Av
Alkyl Dimethyl Benzyl Ammonium Chloride	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

: Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

: Not required in adequately ventilated areas.

Skin protection

: Not required under normal conditions of handling.

Eye / face protection

: Not required under normal conditions of handling.

Other protective equipment : Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing vapour or mist. Do not ingest. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Towellete / pad saturated with clear, colorless liquid.

Odour : Solvent/alcohol odor.

Odour threshold : 22 ppm

pH : 7-9

Melting Point/Freezing point : Not available.

Initial boiling point and boiling range

: Not available.

Flash point : 22°C

Flashpoint (Method) : closed cup

Evaporation rate (BuAe = 1) : Not available.

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: 2%

Upper flammable limit (% by vol.)

: 12.7%

Oxidizing properties : None.

Explosive properties : Not explosive

Vapour pressure : Not available.

Vapour density : Not available.

Relative density / Specific gravity

: 0.80

Solubility in water : Complete

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Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : Not applicable.
Viscosity : Not available.
Volatiles (% by weight) : Not available.
Volatile organic Compounds (VOC's)
: N/Av
Absolute pressure of container
: N/Av
Flame projection length : N/Av
Other physical/chemical comments
: None reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under the recommended storage and handling conditions prescribed. May form explosive peroxides. Rate of peroxide formation is not known.
Possibility of hazardous reactions
: Hazardous polymerization will not occur.
Conditions to avoid : Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.
Incompatible materials : Strong oxidizing agents; Strong acids; Alkali metals; Aluminum .
Hazardous decomposition products
: None known, refer to hazardous combustion products in Section 5.

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*

Harmful effects are not expected under normal usage. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

Sign and symptoms ingestion

Harmful effects are not expected under normal usage. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

Harmful effects are not expected under normal usage. May cause skin irritation in susceptible persons. Symptoms may include mild redness and swelling.

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Sign and symptoms eyes : Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

Potential Chronic Health Effects

: Prolonged or repeated skin contact may cause drying and irritation. Prolonged overexposure may cause liver and kidney effects.

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 have other 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 classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific target organ toxicity, single exposure - Category 3 (narcotic effects)

Not classified as specific target organ toxicity-repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: None known or reported by the manufacturer.

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>	LC₅₀(4hr) <u>inh, rat</u>	LD₅₀	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
2-Propanol	17 000 ppm (41.8 mg/L) (vapour)	4720 mg/kg	12 890 mg/kg
Alkyl Dimethyl Benzyl Ammonium Chloride	N/Av	N/Av	N/Av

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC₅₀ / 96h	NOEC / 21 day	M Factor
2-Propanol	67-63-0	9640 mg/L (Fathead minnow)	N/Av	None.

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
2-Propanol	67-63-0	> 10 000 mg/L/24hr (Daphnia magna)	30 mg/L	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
2-Propanol	67-63-0	N/Av	N/Av	None.

Persistence and degradability

: Isopropanol is considered to be readily biodegradable.

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>
2-Propanol (CAS 67-63-0)	0.05	1.0
Alkyl Dimethyl Benzyl Ammonium Chloride	N/Av	N/Av

Mobility in soil

: No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: See Section 7 (Handling and Storage) for further details.

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.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	II	
49CFR/DOT Additional information	Special provision 47 allows for UN3175, Solids, Containing flammable liquid, N.O.S. in sealed packages, containing less than 10 ml to be exempted from the regulations, provided there is no free liquid in the packet.				
ICAO/IATA	UN3175	Solids containing flammable liquid, n.o.s. (Isopropanol)	4.1	II	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
TDG	UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	II	
TDG Additional information	Special provision 56 allows for UN3175, Solids, Containing flammable liquid, N.O.S. in sealed packages, containing less than 10 ml to be exempted from the regulations, provided there is no free liquid in the packet.				

Special precautions for user : Keep away from heat, sparks and open flame - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, 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:

<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
2-Propanol	67-63-0	Yes	None.	None.	Yes	1%
Alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Eye irritation, Specific target organ toxicity, single exposure. 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.

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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
2-Propanol	67-63-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product.
 All ingredients are present on the 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
2-Propanol	67-63-0	200-661-7	Present	Present	(2)-207	KE-29363	Present	HSR001180

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
 CA: California
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 CNS: Central Nervous System
 CSA: Canadian Standards Association
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation
 IUCLID: International Uniform Chemical Information Database
 LC: Lethal Concentration
 LD: Lethal Dose
 MA: Massachusetts
 MN: Minnesota
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health
 NJ: New Jersey
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration

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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
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
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, CCIInfoWeb 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.

Preparation Date (mm/dd/yyyy)

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<u>Prepared by:</u> Advantus Corporation 12276 San Jose Blvd. Suite 618 Jacksonville, FL 32223 Telephone: (904) 482 0091	
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DISCLAIMER

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