



January 2015

1. Identification

Name of the product: **ReadRight HandKleen**

Product Identification Number(s): RR1460

Recommended use: Surface wipe

Use not recommended: Any use around the eyes or close to an ignition source

Company: **Advantus Corporation**

Telephone: 904-482-0091

12276 San Jose Blvd., Ste. 618

Fax number: 904-482-0099

Jacksonville, FL 32223

Emergency: 1-800-327-1237

CHEMTREC (Transportation): 1-800-424-9300

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA). It is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

2. Hazard(s) identification

Emergency Overview

OSHA Hazards

Flammable liquid, Irritant

Other hazards which do not result in classification are: None.

GHS Classification

Flammable liquids (Cat. 3) H2265 Flammable liquid and vapor.

GHS Label elements, including precautionary statements

Pictogram:



Signal word: **Warning**

Hazard statements:

H226 Flammable liquid and vapor.

H316 Causes mild skin irritation.

H320 Causes eye irritation

Precautionary statements:

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

P261 Avoid breathing dust/ fume/ gas/ mist/ spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Composition / Information on ingredients

Chemical identity: Ethanol 20%

Common name: Ethyl alcohol

Numbers of identity: CAS 64-17-5 EC No. 200578-6

Chemical identity: Benzalkonium chloride 0.13%

Common name: Benzalkonium chloride

Numbers of identity: CAS 8001-54-5

Impurities: None of toxicological or classification significance.

4. First-aid measures

P304+313 +341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a physician.

P302+352 IF ON SKIN: Wash with soap and water.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes.
Remove contact lenses if present and easy to do; continue rinsing.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed: Severe eye irritation. Skin irritation.

5. Firefighting measures

Suitable extinguishing equipment:

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Emergency procedures:

Eliminate ignition source. Evacuate unnecessary personnel. Call appropriate fire fighting crew.

Special protective equipment for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen compounds
Use water spray to cool unopened containers.

6. Accidental release measures

Use personal protective equipment. Avoid breathing, mist or vapors. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas. Be aware of possible accumulating vapors which could form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up
Contain spillage, and then absorb with industrial absorbent, or collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.
See also Sec. 13.

7. Handling and storage

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.
Keep away from sources of ignition - No smoking.
Prevent the build up of electrostatic charge.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place.
Containers which have been opened must be resealed and kept upright to prevent leakage.

8. Exposure controls / personal protection

Information on the system design:

Product is intended for external use only. Stay up wind, out of any spray developed.

Exposure Limits:	Reference 29CFR 1910.1000 Table Z-1	
Component Name, CAS#	OSHA TWA	ACGIH TLV
Ethanol 64-17-5	1,000 ppm 1,900 mg/m3	1,000 ppm
Benzethonium chloride 8001-54-5	NE	NE
NE= Not Established		

Personal protective equipment

Respiratory protection: No requirement anticipated
Hand protection: Rubber gloves.
Eye protection: Safety glasses with side-shields.
Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely; flame retardant and antistatic properties are recommended.

Hygiene measures

Wash hands and face before breaks and immediately after handling the product.
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance: Clear, colorless liquid may be on a saturated pad.
Odor: Alcoholic
Odor threshold: no data available
pH-value: no data available
Melting point: no data available
Freezing Point: no data available
Initial boiling point: 188°F (86.7°C) cc
Flash point: 36°C (97°F) - closed cup, approx.
Evaporation rate: no data available
Flammability (solid, gas): Not applicable
Explosion limits: Lower: 3.3% Upper: 19 (Vol) Ethanol
Vapor pressure: (highest partial vapor pressure) at 20°C: 28 mm Hg
Vapor density: >1
Relative density (water=1.00): 0.98
Solubility: Totally soluble in water at 20°C
Partition coefficient: Log Kow = Not applicable to mixture.

Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Like water

10. Stability and reactivity

Chemical stability: No decomposition, if used according to specifications.
Possibility of hazardous reactions: May form explosive mixture with air.
Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.
Materials to avoid: Alkali metals, oxidizing agents, peroxides
Hazardous decomposition products: none anticipated

11. Toxicological information

There is no data available for the product.

Routes of Entry: Absorbed through skin. Eye contact. Inhalation.

Ethanol
Oral Toxicity LD 50: 7,060 mg/kg (rat)
Dermal Toxicity LD 50: no data available
Inhalation Toxicity, Vapor, LC50: 20000 ppm 10 hr, rat
Eye Irritation (Rabbit): Mild
Dermal Irritation (Rabbit): None

Chronic Effects on Humans:

No ingredient in this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

California Prop. 65 chemicals: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Signs and Symptoms of Exposure:

Central nervous system depression, prolonged or repeated exposure can cause nausea, dizziness, drowsiness, narcosis.

12. Ecological information

Ecotoxicity: Not available for the product. BOD and COD: Not available.

Products of Biodegradation:

Hazardous short term degradation products are not likely.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

PBT and vPvB assessment: No data available.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: No data available.

13. Disposal considerations

Burn in a chemical incinerator equipped with an afterburner and scrubber.
Dispose in accordance with local, state and federal regulations.

14. Transport information

DOT (US)

Ethanol (solution) UN number: 1170 Class: 3 Packing group: II

Marine pollutant: No Poison Inhalation Hazard: No

The description shown may not apply to all shipping situations. Consult 49CFR, OSHA or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name, labeling) and mode-specific or quantity-specific shipping requirements,

15. Regulatory information

OSHA Hazards: Hazard Communication Standard (29 CFR 1910.1200).

Flammable liquid, Target Organ Effect, Irritant

SARA 302 Components: None

SARA 311/312 Hazards

Fire hazard, chronic health hazard

SARA 313 Components: None

Inventory Status: All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

Federal and State Regulations:

State Right to Know lists (RTK): Ethanol (CAS 64-17-5): MA, PA, NJ

Water (CAS 7732-18-5): MA, PA, NJ

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Flammable liquid, Target Organ Effect, Irritant

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

Material causing other toxic effects: None

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

SDS Preparation date: June 15, 2015 SDS Code: AC CT808

Revising SDS dated December 30, 2014 by adding Signal word "Warning" to Section 2.

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	Yes	Yes	No	No	
Delayed	No	No	No	No	
HMIS Hazard ratings: Health 1 Fire 3 Instability 0 Other B (Goggles, gloves)					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					

HMIS® is a registered trade and service mark of the NPCA.

Note: The information in this SDS was obtained from current reputable and competent sources.

However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).