

Page: 1/9

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 30, 2018 Revision: August 30, 2018

1 Identification

· Product identifier

· Trade name: Red Armor Hand Scrub

· Other means of identification: No other identifiers

· Recommended use and restriction on use

· Recommended use: Hand cleaning agent

· Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

ECHO Incorporated 400 Oakwood Rd. Lake Zurich, IL 60047 800-432-3246

ConsumerSupport@echo-usa.com

· Emergency telephone number: 1-800-222-1222

2 Hazard(s) identification

· Classification of the substance or mixture

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements

The label elements below are for use on industrial products in the workplace only. Labeling for consumer products in Canada must comply with the Consumer Chemicals and Containers Regulations (CCCR). Labeling for consumer products in the USA must comply with the Consumer Product Safety Commission (CPSC) requirements.

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

· Signal word: Warning · Hazard statements:

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

· Precautionary statements:

P261 Avoid breathing vapors.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear eye protection.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

(Cont'd. on page 2)



Page: 2/9

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 30, 2018 Revision: August 30, 2018

Trade name: Red Armor Hand Scrub

(Cont'd. of page 1)

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:			
61789-30-8	Coconut fatty acids, potassium salts	5-15%	
	♦ Eye Irrit. 2A, H319		
10124-65-9	potassium laurate	<10%	
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319		
56-81-5	Glycerol	<10%	
1332-58-7	Clay	<10%	
68154-77-8	Fatty acids, olive-oil, potassium salts	<10%	
	♦ Eye Irrit. 2A, H319		
5989-27-5	d-limonene	<1%	
	 ♠ Flam. Liq. 3, H226 ♠ Asp. Tox. 1, H304 ♠ Skin Irrit. 2, H315; Skin Sens. 1, H317 		
	♦ Asp. Tox. 1, H304		
	Skin Irrit. 2, H315; Skin Sens. 1, H317		

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

- Description of first aid measures
- · After inhalation:

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Product is manufactured for topical use. If irritation occurs, discontinue use and wash affected area with soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Most important symptoms and effects, both acute and delayed: Allergic reactions
- Indication of any immediate medical attention and special treatment needed:

Contains d-limonene. May produce an allergic reaction.

Treat skin and mucous membrane with antihistamine and corticoid preparations.



Page: 3/9

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 30, 2018 Revision: August 30, 2018

Trade name: Red Armor Hand Scrub

(Cont'd. of page 2)

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Particular danger of slipping on leaked/spilled product.

Use personal protective equipment as required.

· Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- Handling
- · Precautions for safe handling: Keep out of reach of children.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles: Containers should be tightly sealed.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

(Cont'd. on page 4)

Page: 4/9



Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 30, 2018 Revision: August 30, 2018

Trade name: Red Armor Hand Scrub

		(Cont'd. of page 3)			
· Components w	· Components with limit values that require monitoring at the workplace:				
56-81-5 Glycer	56-81-5 Glycerol				
PEL (USA)	Long-term value: 15* 5** mg/m³ mist; *total dust **respirable fraction				
EL (Canada)	Long-term value: 10* 3** mg/m³ *mist; **mist, respirable				
EV (Canada)	Long-term value: 10 mg/m³				
LMPE (Mexico)	Long-term value: 10 mg/m³				
1332-58-7 Clay	1332-58-7 Clay				
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction				
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction				
TLV (USA)	Long-term value: 2* mg/m³ E; as respirable fraction				
EL (Canada)	Long-term value: 2 mg/m³				
EV (Canada)	Long-term value: 2(D) mg/m³ respirable				
LMPE (Mexico)	Long-term value: 2* mg/m³ A4, *fracción respirable				

- Exposure controls
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

Wash hands before breaks and at the end of work.

- · Engineering controls: No relevant information available.
- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands:

Wear protective gloves to handle contents of damaged or leaking units.

Gloves are advised for repeated or prolonged contact.

- Eye protection: Follow relevant national guidelines concerning the use of protective eyewear.
- · Body protection: Not required under normal conditions of use.
- Limitation and supervision of exposure into the environment

No relevant information available.

· Risk management measures No relevant information available.

9 Physical and chemical properties

Information on basic physical and chemical properties

· Appearance:

Form: Slurry.
Color: Light brown
Odor: Citrus.

(Cont'd. on page 5)

Page: 5/9



Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 30, 2018 Revision: August 30, 2018

Trade name: Red Armor Hand Scrub

		(Cont'd. of page 4)
· Odor threshold:	Not determined.	
· pH-value: · Melting point/Melting range: · Boiling point/Boiling range:	9.20-9.60 Not determined.	
	Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not applicable.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits Lower: Upper: · Oxidizing properties:	Not determined. Not determined. Non-oxidizing.	
· Vapor pressure:	Not determined.	
Density: Relative density: Vapor density: Evaporation rate:	1.19 Not determined. Not determined.	
· Solubility in / Miscibility with Water:	Soluble.	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity Dynamic: Kinematic: · Other information	20000 cps Not determined. No relevant information available.	

10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions Reacts with strong acids.
- · Conditions to avoid Avoid acids.
- · Incompatible materials Strong acids
- · Hazardous decomposition products Possible in traces.

11 Toxicological information

· Information on toxicological effects

(Cont'd. on page 6)





acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 30, 2018 Revision: August 30, 2018

Trade name: Red Armor Hand Scrub

(Cont'd. of page 5)

· Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

5989-27-5 d-limonene

Oral LD50 4400 mg/kg (rat)

- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Irritating effect.
- Sensitization: Contains d-limonene. May produce an allergic reaction.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Eye contact.

Skin contact.

- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · **vPvB:** Not applicable.
- Other adverse effects No relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation:

(Cont'd. on page 7)





acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 30, 2018 Revision: August 30, 2018

Trade name: Red Armor Hand Scrub

(Cont'd. of page 6)

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information			
· UN-Number · DOT, ADR, IMDG, IATA	Not regulated.		
· UN proper shipping name · DOT, ADR, IMDG, IATA	Not regulated.		
Transport hazard class(es)			
· DOT, ADR, IMDG, IATA · Class	Not regulated.		
· Packing group · DOT, ADR, IMDG, IATA	Not regulated.		
· Environmental hazards · Marine pollutant:	No		
Special precautions for user	Not applicable.		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.			

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- SARA
- Section 302 (extremely hazardous substances):

None of the ingredients are listed.

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

(Cont'd. on page 8)



Page: 8/9

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: August 30, 2018 Revision: August 30, 2018

Trade name: Red Armor Hand Scrub

(Cont'd. of page 7)

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL) (Substances not listed.):

All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistant, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health Administration

Flam. Liq. 3: Flammable liquids - Category 3

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Asp. Tox. 1: Aspiration hazard - Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

(Cont'd. on page 9)





Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 30, 2018 Printing date: August 30, 2018

Trade name: Red Armor Hand Scrub

(Cont'd. of page 8)

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