



Material Name: Hercules for Hands

***** Section 1 - Product and Company Identification *****

MSDS #304

Part Numbers: 45333, 45333T, 453339T, 45337

Intended Use: Hand Wipe

Manufacturer Information

HCC Holdings
An Oatey Affiliate
4700 West 160th Street
Cleveland, OH 44135

Phone: 216-267-7100

For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1- 703-527-3887.

***** Section 2 - Hazards Identification *****

GHS Classification:

Specific Target Organ Toxicity Single Exposure - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Warning

Hazard Statements

May cause respiratory irritation.

Precautionary Statements

Prevention

Avoid breathing fume/gas/mist/vapors.

Response

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Disposal

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

Material Name: Hercules for Hands

***** Section 3 - Composition / Information on Ingredients *****

CAS #	Component	Percent
7732-18-5	Water	50 - 80
1119-40-0	Dimethyl glutarate	7-13
627-93-0	Dimethyl adipate	
106-65-0	Dimethyl succinate	
57-55-6	1,2-Propylene glycol	1-5
5989-27-5	D-Limonene	1-5

***** Section 4 - First Aid Measures *****

First Aid: Eyes

Flush victim's eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation persists.

First Aid: Skin

No first aid is required. If irritation develops after use, discontinue use and consult a physician.

First Aid: Ingestion

Do not induce vomiting. Get immediate medical attention.

First Aid: Inhalation

No adverse effects are expected, however, if irritation or other symptoms develop, remove to fresh air. Seek medical attention if symptoms persist.

***** Section 5 - Fire Fighting Measures *****

General Fire Hazards

See Section 9 for Flammability Properties.

Not classified as flammable or combustible but will burn under fire conditions.

Hazardous Combustion Products

Burning may produce carbon monoxide, carbon dioxide and unidentified hydrocarbons.

Extinguishing Media

Use water fog or spray, carbon dioxide, dry chemical or foam.

Unsuitable Extinguishing Media

None.

Fire Fighting Equipment/Instructions

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

***** Section 6 - Accidental Release Measures *****

Recovery and Neutralization

Stop leak if it can be done without risk.

Materials and Methods for Clean-Up

Pick up for re-use or disposal. Flush spill area with water.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

None required.

Material Name: Hercules for Hands

Environmental Precautions

None

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid contact with eyes. Keep containers closed when not in use.

Storage Procedures

Store in a cool, dry area. Keep from freezing.

Incompatibilities

Strong oxidizing agents, acids and bases.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Measures

None required for normal product use conditions.

Personal Protective Equipment: Respiratory

None required for normal product use conditions.

Personal Protective Equipment: Hands

None required for normal product use conditions. This product is intended for use on the skin.

Personal Protective Equipment: Eyes

None required for normal product use conditions. Safety glasses recommended where splashing if possible.

Personal Protective Equipment: Skin and Body

No additional protective equipment needed.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance: Towelettes saturated with clear, colorless liquid.

Odor: Pleasant

Physical State: Solid saturated with liquid

pH: ND

Vapor Pressure: 1 mmHg @ 20° C

Vapor Density: ND

Boiling Point: 100-230°C

Melting Point: ND

Solubility (H2O): 100%

Specific Gravity: 1.01

Evaporation Rate: 0.01 (Buac=1)

VOC: ND

Octanol/H2O Coeff.: ND

Flash Point: 235°F (113°C)

Flash Point Method: ND

Upper Flammability Limit 8.0

(UFL):

Lower Flammability Limit 0.7

Burning Rate: ND

(LFL):

Auto Ignition: ND

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Material Name: Hercules for Hands

Conditions to Avoid

None.

Incompatible Products

Strong oxidizing agents, acids and bases.

Hazardous Decomposition Products

Burning may produce carbon monoxide, carbon dioxide and unidentified hydrocarbons.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

Component Analysis - LD50/LC50

Dimethyl glutarate (1119-40-0)

Inhalation LC50 Rat >5.6 mg/L 4 h; Oral LD50 Rat 8191 mg/kg

Dimethyl adipate (627-93-0)

Oral LD50 Rat 1920 mg/kg

Dimethyl succinate (106-65-0)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

1,2-Propylene glycol (57-55-6)

Oral LD50 Rat 20000 mg/kg; Dermal LD50 Rabbit 20800 mg/kg

D-Limonene (5989-27-5)

Oral LD50 Rat 4400 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

No significant irritation is expected. Not a skin irritant in animal tests.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

May cause mild irritation or discomfort. Not an eye irritant in animal tests.

Potential Health Effects: Ingestion

Swallowing may cause nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

Inhalation of vapors may cause irritation of the nose, throat and upper respiratory tract. High concentrations may cause blurry vision.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects

B: Component Carcinogenicity

D-Limonene (5989-27-5)

IARC: Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data) (Group 3 (not classifiable))

Material Name: Hercules for Hands

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects

Specified Target Organ General Toxicity: Single Exposure

May cause respiratory irritation.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

* * * Section 12 - Ecological Information * * *
--

Ecotoxicity

A: General Product Information

This product is not expected to be toxic to aquatic organisms.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Dimethyl glutarate (1119-40-0)

Test & Species

Conditions

96 Hr LC50 Pimephales promelas	19.6-26.2 mg/L [static]
48 Hr EC50 Daphnia magna	122.1 - 163.5 mg/L

Dimethyl succinate (106-65-0)

Test & Species

Conditions

96 Hr LC50 Brachydanio rerio	50-100 mg/L [static]
------------------------------	----------------------

1,2-Propylene glycol (57-55-6)

Test & Species

Conditions

96 Hr LC50 Oncorhynchus mykiss	51600 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	41 - 47 mL/L [static]
96 Hr LC50 Pimephales promelas	51400 mg/L [static]
96 Hr LC50 Pimephales promelas	710 mg/L
96 Hr EC50 Pseudokirchneriella subcapitata	19000 mg/L
24 Hr EC50 Daphnia magna	>10000 mg/L
48 Hr EC50 Daphnia magna	>1000 mg/L [Static]

D-Limonene (5989-27-5)

Test & Species

Conditions

96 Hr LC50 Pimephales promelas	0.619-0.796 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	35 mg/L

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

Material Name: Hercules for Hands

***** Section 13 - Disposal Considerations *****

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

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

***** Section 14 - Transportation Information *****

DOT/IMDG Information

Shipping Name: Not Regulated

***** Section 15 - Regulatory Information *****

Regulatory Information

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
1,2-Propylene glycol	57-55-6	No	No	Yes	Yes	Yes	No

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
1,2-Propylene glycol	57-55-6	1 %
D-Limonene	5989-27-5	1 %

Additional Regulatory Information

Material Name: Hercules for Hands

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Dimethyl glutarate	1119-40-0	Yes	DSL	EINECS
Dimethyl adipate	627-93-0	Yes	DSL	EINECS
Dimethyl succinate	106-65-0	Yes	DSL	EINECS
1,2-Propylene glycol	57-55-6	Yes	DSL	EINECS
D-Limonene	5989-27-5	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Other Information

NFPA Rating: Health = 0 Fire = 1 Reactivity = 0

HMS Rating: Health = 0 Fire = 1 Reactivity = 0

Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources, and expressly do not make warranties, nor assume any liability for its use.

End of Sheet