

# **MATERIAL SAFETY DATA SHEET**

### 1. Product and Company Identification

Product name SCRUBS (4366-87, 4366-24)

CAS # Mixture

Product Use Waterless Hand Cleaner Towels

Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

#### 2. Hazards Identification

Emergency overview CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Contact with liquid may cause skin sensitization.

Potential short term health effects

Routes of exposure Eye. Inhalation. Ingestion.

Eyes May cause irritation.

Skin Contact with skin can cause minor irritation and allergic reaction (sensitization) in some individuals

following prolonged direct contact.

**Inhalation** Not a normal route of exposure. May cause respiratory irritation.

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Target organs Eyes. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects See section 12.

### 3. Composition/Information on Ingredients

Components	CAS#	Percent
Limonene	5989-27-5	3 - 7
C12-15 PARETH-11	68131-39-5	1 - 5

### 4. First Aid Measures

First aid procedures

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for

15 minutes. Obtain medical attention immediately.

**Skin contact** Flush with water. In case of skin irritation, discontinue use of product.

**Inhalation** Not a normal route of exposure. If symptoms develop move victim to fresh air. If symptoms

persist, obtain medical attention.

**Ingestion** Not a normal route of exposure. Do not induce vomiting. If vomiting occurs naturally, have victim

lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or

is convulsing. Obtain medical attention.

**Notes to physician** Symptoms may be delayed.

**General advice** Keep out of reach of children. Immediate medical attention is required. Ensure that medical

personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. If you feel unwell, seek medical advice (show

the label where possible).

## 5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing

media

Dry chemical. Carbon dioxide. Water spray. Foam.

Unsuitable extinguishing

media

Not available

Not available

**Protection of firefighters** 

Specific hazards arising

from the chemical

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion** 

products

May include and are not limited to: Oxides of carbon. Oxides of sulfur. Hydrogen sulfide.

**Explosion data** 

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

6. Accidental Release Measures

Avoid contact with eyes. Avoid inhalation of vapour, fumes, dust and/or mist from the spilled **Personal precautions** 

material.

**Environmental precautions** 

**Methods for containment** Methods for cleaning up

Do not discharge into lakes, streams, ponds or public waters. Prevent entry into waterways, sewers, basements or confined areas.

Pick up and discard towel.

7. Handling and Storage

Avoid contact with eyes, lips and mouth. Handling

Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Keep out of the reach of children. Storage

Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition.

Protect from freezing.

8. Exposure Controls/Personal Protection

Chemicals listed in section 3 that are not listed here do not have established limit values for **Exposure limits** 

ACGIH.

General ventilation normally adequate. **Engineering controls** 

Personal protective equipment

Not normally required. **Eye/Face protection** 

Not required Hand protection

Skin and body protection Not normally required.

Not normally required if good ventilation is maintained. Respiratory protection

**General hygiene** considerations

Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practices.

9. Physical and Chemical Properties

Liquid saturated on wipe **Appearance** 

Opaque white Colour Towelettes. **Form** Citrus Odour

Not available. **Odour threshold** 

Physical state Solid.  $9.8 \pm 0.5$ pН Not available. Freezing point

100 °C (212 °F) (liquid) **Boiling point** 

Pour point Not available. **Evaporation rate** Not available

None to boiling (PMCC) Flash point

**Auto-ignition temperature** Flammability Limits in Air, Upper, % by Volume

Not available Not available.

Flammability Limits in Air, Lower, % by Volume

Not available

Not available. Heat of combustion Vapour pressure Not available

> 1 Vapour density

Specific gravity 0.986 (Liquid) **Partition coefficient** Not available.

(n-octanol/water)

Wipe is not soluble Solubility (Water) Relative density Not available. Not available. **Viscosity** 

VOC < 8

Percent volatile Not available

# 10. Stability and Reactivity

Reactivity This product may react with strong oxidising agents.

Possibility of hazardous reactions

Hazardous polymerisation does not occur.

Stable under recommended storage conditions. Chemical stability

Conditions to avoid Do not mix with other chemicals. Acids. Oxidizers. Reducing Agents. Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of sulfur. Hydrogen sulphide.

# 11. Toxicological Information

Toxicological data Components	Species	Test results	
C12-15 PARETH-11 (CAS 6			
Acute			
Dermal			
LD50 Rai	Rabbit	2500 mg/kg	
		2000 mg/kg	
Inhalation			
LC50	Not available		
Oral			
LD50	Rat	1600 mg/kg	
Limonene (CAS 5989-27-5)			
Acute			
Dermal			
LD50	Rabbit	> 5000 mg/kg	
Inhalation			
LC50	Not available		
Oral			
LD50 Mouse Rat	Mouse	5600 mg/kg	
	Rat	4400 mg/kg	

Effects of acute exposure

**Eye contact** May cause irritation.

Skin contact Contact with skin can cause minor irritation and allergic reaction (sensitization) in some

individuals following prolonged direct contact.

**Inhalation** Not a normal route of exposure. May cause respiratory irritation.

**Ingestion** Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

SensitisationNon-hazardous by WHMIS criteria.Chronic effectsNon-hazardous by WHMIS criteria.CarcinogenicityNon-hazardous by WHMIS criteria.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Limonene (CAS 5989-27-5) Volume 73 - 3 Not classifiable as to carcinogenicity to humans.

MutagenicityNon-hazardous by WHMIS criteria.Reproductive effectsNon-hazardous by WHMIS criteria.TeratogenicityNon-hazardous by WHMIS criteria.

Name of Toxicologically

**Synergistic Products** 

Not available.

# 12. Ecological Information

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

**Ecotoxicological data** 

Components Species Test results

C12-15 PARETH-11 (CAS 68131-39-5)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 0.37 - 0.43 mg/l, 48 hours

Fish LC50 Channel catfish (Ictalurus punctatus) 1.04 - 1.39 mg/l, 96 hours

Limonene (CAS 5989-27-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 69.6 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulation/accumulation Not available

**Mobility in environmental** 

media

Not available.

Environmental effects Not available.

Aquatic toxicity Not available.

**Partition coefficient** 

Limonene 4.232

Chemical fate information Not available.

# 13. Disposal Considerations

**Disposal instructions** Follow container label directions carefully. Do not reuse towel. Dispose of used towel in trash. Do

not flush in toilet. Do not reuse empty container. Wrap container and put in trash collection.

Review federal, state/provincial, and local government requirements prior to disposal. Discard with

solid waste.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

# 14. Transport Information

## Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

### 15. Regulatory Information

#### Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Limonene (CAS 5989-27-5) 1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

Limonene (CAS 5989-27-5) 1 %

WHMIS Classification Exempt - Notified cosmetic under the Food & Drugs Act

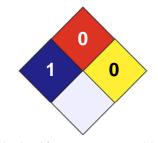
Inventory status

Country(s) or regionInventory NameOn Inventory (Yes/No)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

### 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





**Disclaimer** 

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the

document.

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)