

# Safety Data Sheet: BRUSH OFF CONCRETE OIL STAIN REMOVER, MM

Supersedes Date 10/13/2010

Issuing Date 02/07/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** BRUSH OFF CONCRETE OIL STAIN REMOVER, MM  
**Recommended use** Cleaning agent  
**Information on Manufacturer**  
CHEMSEARCH DIV. OF NCH CORP.  
BOX 152170  
IRVING, TX 75015

**Product Code** 4116  
**Chemical nature** mixture (as an emulsion)  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** white - Light gray

**Physical State** Liquid

**Odor** Citrus

### GHS

#### Classification

##### Physical Hazards

Flammable liquids

Category 4

##### Health Hazard

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2B

Respiratory Sensitization

Category 1

Skin Sensitization

Category 1

Specific target organ systemic toxicity (single exposure)

Category 3

Specific target organ systemic toxicity (repeated exposure)

Category 2

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard Statements

H227 - Combustible liquid

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H320 - Causes eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

#### Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P280 - Wear protective gloves, protective clothing and eye protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace

P260 - Do not breathe vapor or mist.

P285 - In case of inadequate ventilation wear respiratory protection

P271 - Use in a well-ventilated area.

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs, get medical attention

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms, call a physician

P403 + P235 - Store in a well-ventilated place. Keep cool

P233 - Keep container tightly closed

P501 - Dispose of contents and container in accordance with applicable regulations.

96 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
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Diatomaceous earth	61790-53-2	40-70
Proprietary surfactant blend	TRADE SECRET	10-30
Proprietary chelating agents	TRADE SECRET	10-30
Proprietary emulsifiers	TRADE SECRET	10-30
D-Limonene	5989-27-5	1-5

#### 4. FIRST AID MEASURES

<b>General advice</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Avoid breathing dust.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Wipe away material with a cloth. Wash with soap and water. Seek medical attention if irritation develops. Clean clothing and shoes. .
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.
<b>Notes to physician</b>	May cause sensitization of susceptible persons.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	> 141 °F / > 61 °C	<b>Method</b>	Closed cup
<b>Flammability Limits in Air % Solvent.</b>		<b>Upper</b>	6.1
		<b>Lower</b>	0.7
<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>	Combustible Liquid. Vapors may ignite and explode. Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health</b> 2	<b>Flammability</b> 2	<b>Instability</b> 0
<b>HMIS</b>	<b>Health</b> 2	<b>Flammability</b> 2	<b>Instability</b> 0

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Use clean non-sparking tools to collect absorbed material.
<b>Neutralizing Agent</b>	Not applicable.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Avoid breathing dust.			
<b>Storage</b>	Keep away from heat and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.			
<b>Storage Temperature</b>	<b>Minimum</b>	35 °F / 2 °C	<b>Maximum</b>	70 °F / 21 °C
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	<b>Heated</b> <b>Refrigerated</b>

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Diatomaceous earth	No data available	No data available	No data available
Proprietary surfactant blend	No data available	No data available	No data available
Proprietary chelating agents	No data available	No data available	No data available
Proprietary emulsifiers	No data available	No data available	No data available
D-Limonene	No data available	No data available	No data available

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin Protection</b>	Wear suitable protective clothing, Impervious gloves.

**Respiratory Protection**  
**General Hygiene Considerations**

In case of inadequate ventilation wear respiratory protection.  
 Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Viscous
<b>Color</b>	white - Light gray	<b>Odor</b>	Citrus
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Opaque
<b>pH</b>	7.5	<b>Specific Gravity</b>	1.06
<b>Evaporation Rate</b>	< 1 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	>4
<b>VOC Content (%)</b>	< 4	<b>VOC Content (g/L)</b>	< 43
<b>Vapor Pressure</b>	> 14 mmHg @ 70°F	<b>Vapor Density</b>	< 1 (Air = 1.0)
<b>Solubility</b>	Appreciable	<b>n-Octanol/Water Partition</b>	No data available
<b>Melting Point/Range</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>Boiling Point/Range</b>	> 212 °F / 100 °C	<b>Flammability (solid, gas)</b>	No data available
<b>Flash Point</b>	> 141 °F / > 61 °C	<b>Method</b>	Closed cup
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %</b>	Solvent.	<b>Upper 6.1 Lower 0.7</b>	

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces, and sources of ignition
<b>Incompatible Products</b>	Strong oxidizing agents, Acids.
<b>Hazardous Decomposition Products</b>	Carbon oxides
<b>Possibility of Hazardous Reactions</b>	None under normal processing

### 11. TOXICOLOGICAL INFORMATION

**Product Information**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

<b>Oral LD50</b>	No information available
<b>Dermal LD50</b>	No information available
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	No information available
<b>Vapor</b>	No information available

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.

**Primary Routes of Entry** Inhalation, Skin Absorption.

**Acute Effects**

**Eyes** Causes eye irritation.

**Skin** Causes skin irritation. May cause allergic skin reaction.

**Inhalation** Causes respiratory tract irritation. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May cause allergic respiratory reaction.

**Ingestion** Irritating to mouth, throat, and stomach.

**Chronic Toxicity** May cause sensitization by skin contact. May cause sensitization by inhalation. Liver and kidney injuries may occur.

Central nervous system, Liver, Kidney, Lungs, Immune system.

**Target Organ Effects**

**Aggravated Medical Conditions**

Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Neurological disorders.

**Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Diatomaceous earth	no data available	no data available	no data available	no data available	no data available
Proprietary surfactant blend	no data available	no data available	no data available	no data available	no data available
Proprietary chelating agents	no data available	no data available	no data available	no data available	no data available
Proprietary emulsifiers	no data available	no data available	no data available	no data available	no data available
D-Limonene	no data available	> 5 g/kg ( Rabbit )	no data available	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Diatomaceous earth	no data available	no data available	no data available	no data available	no data available
Proprietary surfactant blend	no data available	no data available	no data available	no data available	no data available
Proprietary chelating agents	no data available	no data available	no data available	no data available	no data available
Proprietary emulsifiers	no data available	no data available	no data available	no data available	no data available
D-Limonene	no data available	Skin sensitization,	no data available	no data available	CNS, immune system,

	Respiratory sensitization		lungs, liver, kidneys
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**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Diatomaceous earth	not applicable	Group 2A	not applicable	X	not applicable
Proprietary surfactant blend	not applicable	not applicable	not applicable	not applicable	not applicable
Proprietary chelating agents	not applicable	not applicable	not applicable	not applicable	not applicable
Proprietary emulsifiers	not applicable	not applicable	not applicable	not applicable	not applicable
D-Limonene	not applicable	not applicable	not applicable	not applicable	not applicable

## 12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Diatomaceous earth	no data available	LC50 > 10000 mg/L Cyprinus carpio 72 h	no data available	no data available	N/A
Proprietary surfactant blend	no data available	no data available	no data available	no data available	N/A
Proprietary chelating agents	no data available	no data available	no data available	no data available	N/A
Proprietary emulsifiers	no data available	no data available	no data available	no data available	N/A
D-Limonene	no data available	LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h LC50 = 35 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.

**Container Disposal** Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

DOT

**Proper Shipping Name** <119 Gals: NOT REGULATED >119 Gals: Terpene hydrocarbons, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN2319, Terpene hydrocarbons, n.o.s., 3, PG III

TDG

**Hazard Class** 3  
**Packing Group** III

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

## 15. REGULATORY INFORMATION

**Inventories**

**TSCA** Complies

**DSL** Does not Comply

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	No	No

## CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Diatomaceous earth	Not applicable	Not applicable
Proprietary surfactant blend	Not applicable	Not applicable
Proprietary chelating agents	Not applicable	Not applicable
Proprietary emulsifiers	Not applicable	Not applicable
D-Limonene	Not applicable	Not applicable

## 16. OTHER INFORMATION

**Prepared By** Adrienne McKee  
**Supersedes Date** 10/13/2010  
**Issuing Date** 02/07/2014  
**Reason for Revision** No information available.  
**Glossary** No information available.  
**List of References.** No information available.

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