

MATERIAL SAFETY DATA SHEET

Version Number: 2

Preparation date: 2006-06-07

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: CITRUS FORCE D-Limonene Fortified Cleaner/Degreaser
MSDS #: MS0400009
Product code: 4324110, 4324550
Recommended use: Cleaning product.

Manufacturer, importer, supplier:

US Headquarters
The Butcher Company
8310 16th St.
Sturtevant, Wisconsin 53177-0902
Phone: 1-800-225-9475
MSDS Internet Address:
www.thebutchercompany.com

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-228-5635 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

- DANGER
- CORROSIVE TO EYES
- CAUSES EYE BURNS
- CAUSES SKIN IRRITATION
- HARMFUL OR FATAL IF SWALLOWED
- COMBUSTIBLE LIQUID AND VAPOR
- MAY CAUSE ALLERGIC SKIN REACTION

Principle routes of exposure: Eye contact. Skin contact. Inhalation.
Eye contact: Corrosive. Causes permanent eye damage, including blindness.
Skin contact: Severe skin irritation.
Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion: Corrosive. Causes burns to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS**HAZARDOUS COMPONENTS**

Ingredient(s)	CAS #	Weight %
Sodium metasilicate	6834-92-0	1 - 5%
Myrcene	123-35-3	0.1 - 1.5%
D-limonene	5989-27-5	3 - 7%

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15-20 minutes, keeping eyelids open. Get medical attention immediately.

Skin contact: Flush immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation: If breathing is affected, remove to fresh air. Get medical attention immediately.

Ingestion: If swallowed, give a cupful of water or milk. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Aggravated Medical Conditions: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Dry chemical, water spray, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

None.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Specific hazards: Keep product and empty container away from heat and sources of ignition.

Unusual hazards: None known.

Specific methods: Use water spray to keep fire-exposed containers cool.

NFPA

Health: 3

Flammability: 2

Instability: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Put on appropriate personal protective equipment (see Section 8.). Use spark-proof tools and explosion-proof equipment.

Environmental precautions and clean-up methods:

Eliminate all ignition sources . Use appropriate containment to avoid environmental contamination. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling:

Avoid contact with skin, eyes and clothing. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Prolonged or repeated skin contact may cause allergic reactions in some individuals . Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. **COMBUSTIBLE LIQUID AND VAPOR** . Keep away from open flames, hot surfaces and sources of ignition. Use only in well-ventilated areas. **FOR COMMERCIAL AND INDUSTRIAL USE ONLY**.

Storage:

Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. **KEEP OUT OF THE REACH OF CHILDREN**.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

Personal Protective Equipment

Eye protection:

Chemical splash goggles.

Hand protection:

Chemical resistant gloves

Skin and body protection:

If major exposure is possible, wear suitable protective clothing and footwear.

Respiratory protection:

If aerosols, mists, vapors, or dust are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over-exposure . A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice

HMIS

Health 3

Fire Hazard 2

Reactivity 0

Personal protective equipment



9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid
Color: Orange
pH: 13.25
Specific gravity: 1.029
Bulk density: No information available
Evaporation Rate: No information available
Solubility: Soluble
Solubility in other solvents: No information available
Partition coefficient (n-octanol/water): No information available

Appearance: Aqueous solution
Odor: Citrus
Dilution pH: No information available.
Density: 8.59 lbs/gal
Vapor density: No information available
Viscosity: No information available
VOC: 4.85% *

Boiling point/range:	Not determined
Melting point/range:	Not determined
Flash point:	162 (°F) 72 (°C)
Decomposition temperature:	Not determined
Autoignition temperature:	No information available
Elemental Phosphorus:	0 %P

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Stability: The product is stable

Polymerization: Hazardous polymerization does not occur

Materials to avoid: Oxidising agents. Strong acids.

Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products: Oxides of carbon .

11. TOXICOLOGICAL INFORMATION**HAZARDOUS COMPONENTS**

Ingredient(s)	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Sodium metasilicate	= 600 mg/kg	Not available	Not available
Myrcene	> 5 g/kg	> 5 g/kg	Not available
D-limonene	= 4400 mg/kg	> 2000 mg/kg	Not available

Acute toxicity: Oral LD50 estimated to be between 500 - 5000 mg/kg Dermal LD50 estimated to be > 2000 mg/kg

Chronic toxicity: Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.

Specific effects

Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: No data available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
 Undiluted product is regulated under environmental and transportation laws as a corrosive waste.

14. TRANSPORT INFORMATION

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DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION**International Inventories**

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Philippines (PICCS), China (IECSC).

U.S. Regulations**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65**STATE RIGHT TO KNOW**

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Potassium hydroxide	1310-58-3	X	X	-	X
Water	7732-18-5	-	-	-	-
Sodium metasilicate	6834-92-0	-	-	-	-
Sodium xylene sulfonate	1300-72-7	-	-	-	-
Myrcene	123-35-3	-	-	-	-
D-limonene	5989-27-5	-	-	-	-
Alcohol ethoxylates	34398-01-1	-	-	-	-
5(or 6)-carboxy-4-hexyl -2-cyclohexene -1-oct	53980-88-4	-	-	-	-

CERCLA/ SARA

Ingredient(s)	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Potassium hydroxide 1310-58-3	0.1 - 1.5%	1000		

CAA HAP/CAA ODS/CWA Priority Pollutants: None

SARA 311/312 Hazard Categories

Immediate: Y
Delayed: Y
Fire: Y
Reactivity: N
Sudden Release of Pressure: N

Canada

WHMIS hazard class: B3 Combustible liquid , D2B Toxic materials .



Ingredient(s)	CAS #	NPRI
Myrcene	123-35-3	X
D-limonene	5989-27-5	X

16. OTHER INFORMATION**Reason for revision:** Not applicable**Prepared by:** NAPRAC**Additional advice:** None

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