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WHMIS Pictograms



SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

(N/A)

Product Name: Brake Cleaner
Distributor Name: Fastenal Company
Distributor Address: Winona, MN 55987, USA
 Emergency Phone: 1-813-248-0585

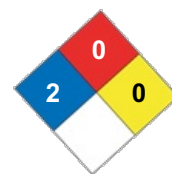
Distributor Telephone: 1-877-Fastenal
Revision Date: August 8, 2005
 August 8, 2008 (Expiry Date)
 Revision #: 1
Manufacturer Name: Fastenal
Address: Winona, MN 55987, USA
 Emergency Phone: 1-813-248-0585

General Use: Brake Cleaner
Business Phone: 1-877-Fastenal
 NFPA 704: National Fire Protection Association

 Hazard Rating:
 0 = Minimal
 1 = Slight
 2 = Moderate
 3 = Severe
 4 = Extreme

Product Codes: 0605047

NFPA

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

: (N/A)

Ingredient Name	CAS#	Ingredient Percent
Perchloroethylene	127-18-4	60 - 100% by Weight
EC Index Number: 1		
Carbon dioxide	124-38-9	3 - 7% by Weight
EC Index Number: 1		
Acetone	67-64-1	5 - 10% by Weight
EC Index Number: 1		

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SECTION 3 : HAZARDS IDENTIFICATION

: (N/A)

Emergency Overview: WARNING
 CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.
 HARMFUL IF INHALED. HARMFUL OR FATAL IF SWALLOWED. CANCER
 HAZARD. CONTAINS MATERIAL WHICH MAY CAUSE CANCER. MAY CAUSE
 EYE IRRITATION. MAY CAUSE SKIN IRRITATION. Do not puncture. Do not
 burn. Store away from heat.
Environment Hazards: See Section 12 for more information.

Applies to All Ingredients :

Route of Exposure: Skin contact, skin absorption, eye contact, and inhalation.
Potential Health Effects: See Section 11 for more information.
Eye Contact: May irritate eyes.
Skin Contact: May irritate skin.
Inhalation: Harmful if inhaled. Excessive intentional inhalation may cause respiratory
 tract irritation and central nervous system effects (headache, dizziness).
 Aspiration of material into lungs can cause chemical pneumonitis.
Ingestion: May cause stomach distress, nausea or vomiting.
Chronic Health Effects: Prolonged or repeated exposure can cause drying, defatting and

Target Organs:	dermatitis. Kidney. Spleen. Liver. Lungs.
Signs/Symptoms:	Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Aggravation of Pre-Existing Conditions:	Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

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SECTION 4 : FIRST AID MEASURES : (N/A)

Eye Contact:	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Skin Contact:	After contact with skin, wash immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, get medical attention.
Inhalation:	If breathed in, move person into fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
Ingestion:	If swallowed, call a Poison Control Centre or doctor immediately. DO NOT induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. If swallowed, rinse mouth with water (only if the person is conscious).
Note to Physicians:	Symptoms may be delayed.
Other First Aid:	General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

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SECTION 5 : FIRE FIGHTING MEASURES : (N/A)

Fire:	Flammability: FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols): NOT FLAMMABLE. Not flammable by WHMIS criteria.
Flash Point:	(Of concentrate): Not available.
Upper Flammable or Explosive Limit:	Not available.
Lower Flammable or Explosive Limit:	Not available.
Auto Ignition Temperature:	Not available.
Extinguishing Media:	Powder, water spray, foam, carbon dioxide.
Unsuitable Media:	Not available.
Hazardous Combustion Byproducts:	Oxides of carbon. Hydrogen chloride. Phosgene. Chlorine.
Fire Fighting Equipment:	Pressurized container may explode when exposed to heat or flame. In case of fire and/or explosion do not breathe fumes. Firefighters should wear full protective clothing including self contained breathing apparatus.
Sensitivity to Impact:	Mechanical Impact: Not available.
Static Discharge Effects:	Not available.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES : (N/A)

Personal Precautions:	Use personal protection recommended in Section 8. Isolate area. Remove sources of ignition. Keep unnecessary personnel away. Ruptured cylinders may rocket.
Spill Cleanup Measures:	Sweep up or gather material and place in appropriate container for disposal. Allow gas to dissipate into the atmosphere.
Environmental Precautions:	Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Methods for Containment: Prevent further leakage or spillage if safe to do so. Use sand, perlite or vermiculite as an absorbent for large spills of this material. Other Information: Not available.

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SECTION 7 : HANDLING and STORAGE : (N/A)

Handling:	Keep away from heat, open flames or other sources of ignition. Avoid contact with eyes. Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in a wellventilated area. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
Storage:	Keep out of the reach of children. Do not store at temperatures above 49 deg C. Store in a cool, dry, well-ventilated area. Keep away from food, drink and animal feedingstuffs.
Hygiene Practices:	Handle in accordance with good industrial hygiene and safety practice.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION : (N/A)

Engineering Controls:	Provide adequate local exhaust ventilation to maintain worker exposure
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	below exposure limits.
Skin Protection Description:	Wear suitable protective clothing.
Hand Protection Description:	Wear suitable gloves.
Eye/Face Protection:	Wear safety glasses with side shields.
Protective Clothing/Body Protection:	Wear suitable protective clothing.
Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
	General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Ingredient Guidelines

Ingredient: Acetone

Guideline Type:	OSHA PEL-TWA
Guideline Information:	1000 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	750 ppm

Ingredient: Carbon dioxide

Guideline Type:	OSHA PEL-TWA
Guideline Information:	5000 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	5000 ppm

Ingredient: Perchloroethylene

Guideline Type:	OSHA PEL-TWA
Guideline Information:	25 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	25 ppm

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

: (N/A)

Physical State/Appearance:	Clear.
Color:	Colorless.
Odor:	Solvent.
Physical State:	Gas/Pressurized Liquid.
pH:	(Of concentrate): Not available.
Vapor Pressure:	(Of concentrate): Not available.
Vapor Density:	(Of concentrate): Not available.
Flash Point:	(Of concentrate): Not available.
Auto Ignition Temperature:	Not available.
Upper Explosive Limit:	Not available.
Lower Explosive Limit:	Not available.
Boiling Point:	(Of concentrate): Not available.
Freezing Point:	(Of concentrate): Not available.
Solubility:	(Of concentrate): Insoluble.
Specific Gravity:	(Of concentrate): 1.60
Evaporation Point:	(Of concentrate): 2.1 (n-butyl acetate = 1)
Percent Volatile:	Wt. %: 100
Volatile Organic Compound Content:	VOC content, wt. %: 0
Viscosity:	(Of concentrate): Water thin.
Odor Threshold:	Not available.
Coefficient of Water/Oil Distribution:	Not available.

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SECTION 10 : STABILITY and REACTIVITY

: (N/A)

Chemical Stability:	Stable under recommended storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.
Incompatibilities with Other Materials:	Oxidizers.
Reactivity:	Conditions of Reactivity: No dangerous reaction known under conditions of normal use.
	Possibility of Hazardous Reactions: Will not occur.
Hazardous Decomposition Products:	Oxides of carbon. Hydrogen chloride. Phosgene. Chlorine.

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SECTION 11 : TOXICOLOGICAL INFORMATION

: (N/A)

Applies to all ingredients:

Eye Effect:	May irritate eyes. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Effects:	May irritate skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Ingestion Effects:	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
Inhalation Effects:	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Aspiration of material into lungs can cause chemical pneumonitis.
Chronic Effects:	Hazardous by WHMIS/OSHA criteria.
Carcinogenicity:	Hazardous by WHMIS/OSHA criteria.
Mutagenicity:	Not hazardous by WHMIS/OSHA criteria.
Teratogenicity:	Not hazardous by WHMIS/OSHA criteria.

Embryo Toxicity: Not hazardous by WHMIS/OSHA criteria.
Sensitization: Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.
Reproductive Toxicity: Not hazardous by WHMIS/OSHA criteria.
Other Toxicological Information: Target Organs: Kidney. Spleen. Liver. Lungs.

Toxicologically Synergistic Materials: Not available.

Perchloroethylene :

Ingestion Effects: LD50 (oral): 2629 mg/kg, rat
Inhalation Effects: LC50: 34.2 g/m³ 8hrs, rat
Carcinogenicity: Chemical Listed as Carcinogen or Potential Carcinogen:
NTP: Yes
IARC: Yes
OSHA: No
ACGIH: Yes

Carbon dioxide :

Ingestion Effects: LD50 (oral): Not available
Inhalation Effects: LC50: Not available
Carcinogenicity: Chemical Listed as Carcinogen or Potential Carcinogen:
NTP: No
IARC: No
OSHA: No
ACGIH: No

Acetone :

Ingestion Effects: LD50 (oral): 5800 mg/kg, rat
Inhalation Effects: LC50: Not available
Carcinogenicity: Chemical Listed as Carcinogen or Potential Carcinogen:
NTP: No
IARC: No
OSHA: No
ACGIH: No

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SECTION 12 : ECOLOGICAL INFORMATION : (N/A)

Ecotoxicity: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Environmental Fate: Mobility in Environment: Not available.

Bioaccumulation: Accumulation: Not available.
Biodegradation: Persistence/Degradability: Not available.

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SECTION 13 : DISPOSAL CONSIDERATIONS : (N/A)

Waste Disposal: Disposal Instructions: This material and its container must be disposed of in a safe way. Dispose in accordance with all applicable regulations.

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SECTION 14 : TRANSPORT INFORMATION : (N/A)

DOT Hazard Class: ORM-D
IATA Shipping Name: AEROSOLS, non-flammable
IATA UN Number: UN1950
IATA Class: 2.2
Canadian Hazard Class: Limited Quantity

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SECTION 15 : REGULATORY INFORMATION : (N/A)

Applies to All Ingredients :

TSCA 8(b): Inventory Status: Inventory: TSCA ☐ Toxic Substances Control Act
Jurisdiction: United States
Ingredients on List: Yes

OSHA 29 CFR 1200: US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

State: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING: This product contains a chemical known to the State of California to cause cancer

Canada WHMIS: Canadian: 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.

Inventory: DSL ☐ Domestic Substances List
Jurisdiction: Canada
Ingredients on List: Yes

Inventory: NDSL ☐ Non-domestic Substances List
Jurisdiction: Canada
Ingredients on List: No

WHMIS Classification:
Class A - Compressed Gas
Class D1B - Toxic Material
Class D2A - Carcinogenicity
Class D2B - Chronic Toxic Effects

Class D2B - Skin/Eye Irritant

NFPA 704: National Fire Protection Association
Health - 2
Fire - 0
Reactivity - 0

Hazard Rating:
0 = Minimal
1 = Slight
2 = Moderate
3 = Severe
4 = Extreme

Perchloroethylene :

Section 304 CERCLA RQ: 100 lbs.

Section 313 Toxic Release
Form (Yes/No): Yes

Acetone :

Section 304 CERCLA RQ: 5,000 lbs.

Section 313 Toxic Release
Form (Yes/No): No

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SECTION 16 : ADDITIONAL INFORMATION

: (N/A)

NFPA:

Health: 2 = Moderate

Fire Hazard: 0 = Minimal

Reactivity: 0 = Minimal

MSDS Revision Date: August 8, 2005
August 8, 2008 (Expiry Date)
Revision ##: 1

MSDS Author: Nexreg Compliance Inc.
Phone: (519) 488-5126
Web: www.nexreg.ca

Disclaimer:

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Formula ##: A00733

NFPA 704: National Fire Protection Association

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