

Jared Jamerman

From: Mike Gill
Sent: Monday, April 16, 2012 2:23 PM
To: Jared Jamerman
Subject: Emailing: MSDS

REC'D MAY 12 2012

From: "Saved by Windows Internet Explorer 8" Subject: MSDS Date: Wed, 11 Apr 2012 13:27:18 -0400
MIME-Version: 1.0 Content-Type: text/html; charset="utf-8" Content-Transfer-Encoding: quoted-printable
Content-Location: http://www.fastenal.com/web/msds/getmsds.ex?sku=0604058 X-MimeOLE: Produced By
Microsoft MimeOLE V6.1.7601.17609 =EF=BB=BF
ACTIO = MSDS=20 ID: 254746

View Section : =20 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16=20

SECTION 1 = - PRODUCT=20 AND COMPANY IDENTIFICATION

PRODUCT NUMBER: 10340=20
MANUFACTURER NAME: CRC=20 Industries, Inc. 885 Louis Drive Warminster, PA 18974 =
BUSINESS PHONE: (215)=20 674-4300
Technical Assistance: = (800)=20 521-3168
Customer Service: (800)=20 272-4620
CHEMTREC: (800)=20 424-9300
EMAIL: www.crcindustries.com =
PRODUCT NAME: Quick=20 Dry Precision Cleaner (Aerosol)
TRADE NAME: Quick=20 Dry Precision Cleaner (Aerosol)
MSDS Manufacturer Number: = 10340=20

SECTION 2 = -=20 COMPOSITION/INFORMATION ON INGREDIENTS =

Ingredient Name =	CAS#	Ingredient Percent =20
Hexane isomers	64742-49-0	60 - 70% = by Weight =
n-Hexane	110-54-3	4.8% = by Weight =
Synthetic isoparaffinic = hydrocarbon	64741-66-8	5 - 10% = by Weight =
Methanol	67-56-1	< 1% = by Weight =
1,1-Difluoroethane (HFC-152a) =	75-37-6	20 - 30% = by Weight =20

SECTION 3 = - HAZARDS=20 IDENTIFICATION

EMERGENCY OVERVIEW: =

DANGER=20 Extremely flammable. Harmful or fatal if swallowed. Contents under = pressure. As defined by OSHA=E2=80=99s Hazard Communication = Standard, this product=20 is hazardous.

Appearance & Odor: = Clear,=20 colorless liquid with alcohol odor

EYE CONTACT: May=20 cause mild irritation including stinging and redness, but does not = injure=20 eye.

SKIN CONTACT: Single,=20 brief exposures may cause mild irritation. Frequent or prolonged = contact=20 may cause more severe irritation, defatting of the skin, and = dermatitis.=20

INHALATION: High=20 vapor concentrations are irritating to the respiratory tract and = may cause=20 headaches, dizziness, anesthesia, drowsiness, unconsciousness and = other=20 central nervous system effects, including death. May cause = peripheral=20 nervous system disorder and/or damage.

INGESTION: Low=20 order of toxicity by ingestion. Main hazard is aspiration into the = lungs=20 during swallowing or vomiting. Small amounts aspirated into the=20 respiratory system may cause bronchopneumonia or pulmonary adema, = possible=20 progressing to death.

CHRONIC EFFECTS: Overexposure to n-hexane may cause=20 progressive and potentially irreversible damage to the peripheral = nervous=20 system, particularly in the arms and legs.

Target Organ Effects: = central=20 nervous system, peripheral nervous system, respiratory system=20

AGGRAVATION OF CONDITIONS: = skin=20 and respiratory conditions

Hazards Comments: See=20 Section 11 for toxicology and carcinogenicity information on = product=20 ingredients.

SECTION 4 = - FIRST AID=20 MEASURES

EYE CONTACT: Immediately flush with plenty of = water for 15=20 minutes. Call a physician if irritation persists. =

SKIN CONTACT: Remove=20 contaminated clothing and wash affected area with soap and water. = Call a=20 physician if irritation persists. Wash contaminated clothing prior = to=20 re-use.

INHALATION: Remove=20 person to fresh air. Keep person calm. If not breathing, give = artificial=20 respiration. If breathing is difficult give oxygen. Call a = physician.=20

INGESTION: DO NOT=20 induce vomiting. Contact a physician immediately. =

NOTE TO PHYSICIANS: = Treat=20 symptomatically. Gastric lavage using a cuffed endotracheal tube = may be=20 performed at your discretion. =

SECTION 5 = - FIRE=20 FIGHTING MEASURES

FLAMMABLE PROPERTIES: = This=20 product is extremely flammable in accordance with aerosol = flammability=20 definitions (16 CFR 1500.3(c)(6)).

FLASH POINT: < 0=20 F (TCC)

FLAMMABLE LIMITS - UEL: = 9.0=20

AUTOIGNITION TEMPERATURE: = 489 F=20

FLAMMABLE LIMITS - LEL: = 1.7=20

EXTINGUISHING Class B=20 fire extinguishers, dry chemical, foam or CO2 =

MEDIA: =

**HAZARDOUS
COMBUSTION
PRODUCTS: =**

fumes,=20 smoke and carbon monoxide

**PROTECTIVE
EQUIPMENT: =**

Firefighters should wear = self-contained,=20 NIOSH-approved breathing apparatus for protection against = suffocation and=20 possible toxic decomposition products. Proper eye and skin = protection=20 should be provided. Use water fog or spray to keep fire-exposed = containers=20 cool and to knock down vapors which may result from product = decomposition.=20 Do not spray water directly on fire; product will float and could = be=20 reignited on surface of water. =

SECTION 6 = - ACCIDENTAL=20 RELEASE MEASURES

**PERSONNEL
PRECAUTIONS: =**

Use=20 personal protection recommended in Section 8. =

**ENVIRONMENTAL
DATA: =**

Take=20 precautions to prevent contamination of ground and surface waters. = Do not=20 flush into sewers or storm drains.

**SPILL CLEAN UP
MEASURES: =**

Dike=20 area to contain spill. Remove all sources of ignition. Ventilate = the area=20 with fresh air. If in confined space or limited air circulation = area,=20 clean-up workers should wear appropriate respiratory protection. = Recover=20 or absorb spilled material using an absorbent designed for = chemical=20 spills. Place used absorbents into proper waste containers.=20

SECTION 7 = - HANDLING=20 and STORAGE

HANDLING:

Use=20 proper grounding and bonding procedures for transferring = materials. Do not=20 use product near any source of ignition. Do not touch container to = electrical sources as container will conduct electricity. Avoid = contact=20 with eyes and skin. Avoid breathing vapors.

STORAGE:

Store=20 in a cool dry area out of direct sunlight. Aerosol cans must be = maintained=20 below 120 F to prevent cans from rupturing.

**AEROSOL
STORAGE
LEVEL: =**

III=20

SECTION 8 = - EXPOSURE=20 CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES=20

**ENGINEERING
CONTROLS: =**

Area=20 should have ventilation to provide fresh air. Use local exhaust to = prevent=20 accumulation of vapors. Use mechanical means if necessary to = maintain=20 vapor levels below the exposure guidelines. If working in a = confined=20 space, follow applicable OSHA regulations

**RESPIRATORY
PROTECTION: =**

None=20 required for normal work where adequate ventilation is provided. = Use a=20 NIOSH- approved cartridge respirator with an organic vapor = cartridge if=20 vapors exceed exposure limits. Use a self-contained breathing = apparatus in=20 confined spaces and for emergencies.

**EYE
PROTECTION:
SKIN**

For=20 normal conditions, wear safety glasses. Where there is reasonable=20 probability of liquid contact, wear splash-proof goggles.=20

Use=20 protective gloves such as nitrile, PVC or Viton. Also, use full =

PROTECTION: protective=20 clothing if there is prolonged or repeated contact of liquid with = skin.=20

Ingredient Guideline Notes: N.E. =E2=80=93=20 Not Established (c) =E2=80=93 ceiling (s) =E2=80=93 skin (v) = =E2=80=93 vacated

Ingredient: Hexane=20 isomers

Guideline Info: OSHA=20 TWA: 500(v); OSHA STEL: 1000(v); ACGIH TWA: 500; ACGIH STEL: 1000; = OTHER=20 TWA: NE; UNIT: ppm

Ingredient: n-Hexane

Guideline Info: OSHA=20 TWA: 500; OSHA STEL: NE; ACGIH TWA: 50(s); ACGIH STEL: NE; OTHER = TWA: NE;=20 UNIT: ppm

Ingredient: Synthetic isoparaffinic hydrocarbon =

Guideline Info: OSHA=20 TWA: NE; OSHA STEL: NE; ACGIH TWA: NE; ACGIH STEL: NE; OTHER TWA: = NE=20

Ingredient: Methanol

Guideline Info: OSHA=20 TWA: 200; OSHA STEL: 250 (v); ACGIH TWA: 200; ACGIH STEL: 250; = OTHER TWA:=20 NE; UNIT: ppm

Ingredient: 1,1-Difluoroethane (HFC-152a)=20

Guideline Info: OSHA=20 TWA: NE; OSHA STEL: NE; ACGIH TWA: NE; ACGIH STEL: NE; OTHER TWA: = 1000;=20 SOURCE: AIHA; UNIT: ppm

SECTION 9 = - PHYSICAL=20 and CHEMICAL PROPERTIES

PHYSICAL STATE: liquid=20

COLOR: clear,=20 colorless

ODOR: alcohol=20

SPECIFIC GRAVITY: 0.6699=20

INITIAL BOILING POINT: = 140 F=20

FREEZING POINT: <=20 -76 F

VAPOR PRESSURE: 160=20 mmHg @ 68 F

VAPOR DENSITY: > 1=20 (air =3D 1)

EVAPORATION RATE: > 1=20 (Butyl acetate =3D 1)

SOLUBILITY: negligible in water =

pH: NA=20

VOLATILE ORGANIC COMPOUNDS: = wt % :=20 75 g/L : 501.8 lbs./gal: 4.2 =

SECTION 10 = - STABILITY=20 and REACTIVITY

STABILITY: Stable=20

CONDITIONS TO AVOID: = sources=20 of ignition, temperature extremes

INCOMPATIBLE MATERIALS: = strong=20 oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:=20 oxides=20 of carbon

DANGEROUS REACTIONS: = No=20

SECTION 11 = -=20 TOXICOLOGICAL INFORMATION

OSHA: None=20 listed

IARC: None=20 listed
NTP: None=20 listed
MUTAGENICITY: No=20 information available
Toxicological Comments: Long-term toxicological studies = have not been=20 conducted for this product. The following information is available = for=20 components of this product.
Chemical Name: n-hexane
ACUTE TOXICITY (Ingredient): = **Test:**=20 LD50; **Result:** 28710 mg/kg; **Route:** Oral; **Species:** Rat =
Chemical Name: n-hexane
ACUTE TOXICITY (Ingredient): = **Test:**=20 LD50; **Result:** 3000 mg/kg; **Route:** Dermal; **Species:** Rabbit =
Chemical Name: n-hexane
ACUTE TOXICITY (Ingredient): = **Test:**=20 LC50; **Result:** 48000 ppm/4H; **Route:** Inhalation; **Species:** Rat=20

SECTION 12 = -=20 ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: = **n-hexane - 48 Hr EC50 water flea:** = 3.87 mg/L=20 **96 Hr LC50 Lepomis macrochirus:** 4.12 mg/L
Persistence / Degradability: = No=20 information available
BIOACCUMULATION: No=20 information available
MOBILITY: No=20 information available
Ecological Comments: = Ecological studies have not been = conducted=20 for this product. The following information is available for = components of=20 this product.

SECTION 13 = - DISPOSAL=20 CONSIDERATIONS

WASTE DISPOSAL: The=20 dispensed liquid product is a RCRA hazardous waste for the = characteristic=20 of ignitability with a waste code of D001 (See 40 CFR Part 261.20 = =E2=80=93=20 261.33). Aerosol containers should be emptied and depressurized = before=20 disposal. Empty containers may be recycled. Any liquid product = should be=20 managed as a hazardous waste. All disposal activities must comply = with=20 federal, state and local regulations. Local regulations may be = more=20 stringent than state or national requirements.=20

SECTION 14 = - TRANSPORT=20 INFORMATION

DOT: Consumer Commodity, ORM-D =
Special Provisions: = None=20

SECTION 15 = -=20 REGULATORY INFORMATION

TSCA INVENTORY STATUS: = All=20 ingredients are either listed on the TSCA inventory or are exempt. =
CERCLA: Reportable Quantities = (RQ=E2=80=99s) exist for the=20 following ingredients: n-hexane (5000 lbs) methanol (5000 lbs) = Spills or=20 releases resulting in the loss of any ingredient at or above its = RQ=20 require immediate notification to the

National Response Center=20 (800-424-8802) and to your Local Emergency Planning Committee.=20

SECTION 302 EHS: None=20

311/312 Hazard Categories: = Fire=20 Hazard Yes Reactive Hazard No Release of Pressure Yes Acute Health = Hazard=20 Yes Chronic Health Hazard Yes

SECTION 313: This=20 product contains the following substances subject to the reporting = requirements of Section 313 of Title III of the Superfund = Amendments and=20 Reauthorization Act of 1986 and 40 CFR Part 372: n-hexane (4.8%), = methanol=20 (0.6%)

SECTION 112 HAPS: n-hexane, methanol =

California Proposition 65: = This=20 product may contain the following chemicals known to the state of=20 California to cause cancer, birth defects or other reproductive = harm: NONE=20 New=20 Jersey: 75-83-2, 110-54-3, 79-29-8, 67-56-1, 75-37-6 Pennsylvania: = 107-83-5, 75-83-2, 110-54-3, 79-29-8, 67-56-1, 75-37-6 = Massachusetts:=20 107-83-5, 75-83-2, 110-54-3, 79-29-8, 67-56-1, 75-37-6 Rhode = Island :=20 110-54-3, 67-56-1, 75-37-6

STATE RIGHT TO KNOW: =

ADDITIONAL INFORMATION: = This=20 product complies with Consumer Products VOC regulations as an = Electronic=20 Cleaner.

SECTION 16 = -=20 ADDITIONAL INFORMATION

HMIS - HEALTH: 2=20

HMIS - FLAMMABILITY: = 3=20

HMIS - REACTIVITY: 0=20

HMIS - PERSONAL PROTECTION: = B=20

MSDS AUTHOR: Michelle Rudnick =

CRC #: 599C=20

MSDS REVISION DATE: = 06/14/2010

Revision Changes: Section=20 15: Additional Regulatory Information revised =

DISCLAIMER: The=20 information contained in this document applies to this specific = material=20 as supplied. It may not be valid for this material if it is used = in=20 combination with any other materials. This information is accurate = to the=20 best of CRC Industries' knowledge or obtained from sources = believed by CRC=20 to be accurate. Before using any product, read all warnings and = directions=20 on the label.

ABBREVIATIONS: CAS:=20 Chemical Abstract Service NA: Not Applicable ppm: Parts per = Million ND:=20 Not Determined TCC: Tag Closed Cup NE: Not Established PMCC:=20 Pensky-Martens Closed Cup g/L: grams per Liter PPE: Personal = Protection=20 Equipment lbs./gal: pounds per gallon TWA: Time Weighted Average = STEL:=20 Short Term Exposure Limit OSHA: Occupational Safety and Health=20 Administration ACGIH American Conference of Governmental = Industrial=20 Hygienists NIOSH National Institute of Occupational Safety & = Health=20

NFPA - HEALTH: 2=20

NFPA - FIRE: 3=20

NFPA - REACTIVITY: 0=20