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**Common Name:** INDUSTRIAL BATTERY CLEANER 03176, 83176

**Manufacturer:** CRC

**MSDS Revision Date:** 2/21/2005

**Grainger Item Number(s):** 2F133

**Manufacturer Model Number(s):** 03176, 3176

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MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: INDUSTRIAL BATTERY CLEANER

PRODUCT NUMBER(S): 03176, 83176

MANUFACTURED BY:

CRC INDUSTRIES, INC.

885 LOUIS DRIVE

WARMINSTER, PA 18974

(215) 674-4300

24-HOUR EMERGENCY INFORMATION:

CHEMTREC: (800) 424-9300

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	ACGIH TLV	OSHA PEL	OTHER LIMITS	%
SODIUM BICARBONATE	144-55-8	NE	NE	NE	< 10
WATER	7732-18-5	NE	NE	NE	> 90
2-BUTOXY ETHANOL	111-76-2	25 PPM	25 PPM	(SKIN)	< 10
DETERGENT	MIXTURE	NE	NE	NE	< 10
PROPANE	74-98-6	NE	1000 PPM	NE	< 10
ISOBUTANE	75-28-5	NE	NE	1000 PPM	< 10

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

APPEARANCE & ODOR: CLEAR LIQUID, NO ODOR.

CAUTION: CONTENTS UNDER PRESSURE.

POTENTIAL HEALTH EFFECTS:

INHALATION: NA  
EYES: IRRITATION  
SKIN: IRRITATION  
INGESTION: NA

CARCINOGENICITY:

OSHA: NO  
IARC: NO  
NTP: NO

CHRONIC OVEREXPOSURE: NA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NA

## SECTION 4: FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY.

EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES.

SKIN: REMOVE CONTAMINATED CLOTHING AND WASH AREA WITH SOAP AND WATER.

INGESTION: INDUCE VOMITING ON THE ADVICE OF A PHYSICIAN.

**SECTION 5: FIRE-FIGHTING MEASURES**

FLASHPOINT: NONE  
METHOD: TCC

LEL: ND  
UEL: ND

EXTINGUISHING MEDIA: CO2, FOAM

HAZARDOUS COMBUSTION PRODUCTS: NA

**FIRE-FIGHTING INSTRUCTIONS:**

REMOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. USE SELF-CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING. AEROSOL CANS MAY EXPLODE IF HEATED ABOVE 120 DEG. F.

**NFPA:**

HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0

**HMIS:**

HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0  
PPE: B

**SECTION 6: ACCIDENTAL RELEASE MEASURES****SPILL/LEAK PROCEDURES:**

USUALLY NOT A PROBLEM WITH AEROSOLS. AREA SHOULD BE VENTILATED. ABSORBENT SHOULD BE USED TO PICK UP EXCESS MATERIAL. ALL USED AND UNUSED PRODUCT SHOULD BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 7: HANDLING AND STORAGE****HANDLING PROCEDURES:**

STORE IN A COOL, DRY AREA. AEROSOL CANS MUST BE MAINTAINED BELOW 120 DEG. F TO PREVENT CANS FROM EXPLODING. NFPA RATING OF 4 IS DUE TO THE PROPELLANT ONLY.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****ENGINEERING CONTROLS:**

ADEQUATE TO PREVENT ACCUMULATION OF VAPORS. USE MECHANICAL MEANS IF NECESSARY TO MAINTAIN LEVELS BELOW THE EXPOSURE LIMITS. IF WORKING IN A CONFINED SPACE, FOLLOW APPLICABLE OSHA REGULATIONS.

**RESPIRATORY:**

USE NIOSH/MSHA COMPLIANT RESPIRATORS OR SELF-CONTAINED BREATHING APPARATUS ABOVE EXPOSURE LIMITS. FOLLOW OSHA REGULATIONS 29 CFR 1910.134.

**PROTECTIVE CLOTHING/EQUIPMENT:**

WEAR CHEMICALLY PROTECTIVE GLOVES AND SAFETY GLASSES. USE A SPLASH APRON AND BOOTS IF SPLASHING OCCURS.

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

PHYSICAL STATE: LIQUID

APPEARANCE & ODOR: CLEAR LIQUID, NO ODOR.

SPECIFIC GRAVITY: 1.04

BOILING POINT: C.A. 212 DEG. F

FREEZING POINT: C.A. 32 DEG. F

VAPOR PRESSURE: WATER

EVAPORATION RATE: NA

VAPOR DENSITY (AIR=1): ND

pH: NA

SOLUBILITY: SOLUBLE IN WATER.

VOLATILE ORGANIC COMPOUNDS:

%: 8.0

G/L: 76.0000

LBS./GAL: 0.63

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: NO

CHEMICAL INCOMPATIBILITIES: STRONG OXIDIZERS.

MATERIALS TO AVOID: NA

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

**SECTION 11: TOXICOLOGICAL INFORMATION**

LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. SEE SECTION 3 OF THIS MSDS FOR ACUTE SYMPTOMS OF OVEREXPOSURE AND CARCINOGENICITY INFORMATION.

**SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY: NO DATA AVAILABLE.

ENVIRONMENTAL FATE: NO DATA AVAILABLE FOR BIODEGRADATION.

**SECTION 13: DISPOSAL CONSIDERATIONS**

DISPOSAL:

THIS MATERIAL IF DISCARDED MAY BE HAZARDOUS WASTE UNDER U.S. EPA RCRA REGULATIONS. ALL DISPOSAL ACTIVITIES MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. CONTACT YOUR LOCAL OR STATE ENVIRONMENTAL AGENCY FOR SPECIFIC RULES. DO NOT DUMP INTO SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.

**SECTION 14: TRANSPORTATION INFORMATION**

SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

UN NUMBER: NA

PACKING GROUP: NA

LABEL: NA

PLACARD: NA

SPECIAL PROVISIONS: NA

**SECTION 15: REGULATORY INFORMATION**

TSCA: ALL COMPONENTS ARE EITHER LISTED UNDER TSCA OR ARE EXEMPT.

SARA TITLE III:

SECTION 311/312: ACUTE, PRESSURE

SECTION 313\*: 2-BUTOXY ETHANOL

CERCLA/SUPERFUND (RQ): NA

EXTREMELY HAZARDOUS SUBSTANCES: NO

CALIFORNIA PROP 65: NO

\* SEE SECTION 2 FOR PERCENTAGE

**SECTION 16: ADDITIONAL INFORMATION**

PREPARED BY: MICHELLE MILBURN

DATE: FEBRUARY 21, 2005

TECHNICAL INFORMATION: (800) 521-3168

CRC #: 530B

THIS INFORMATION IS ACCURATE TO THE BEST OF CRC INDUSTRIES' KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY CRC TO BE ACCURATE. BEFORE USING ANY PRODUCT, READ ALL WARNINGS AND DIRECTIONS ON THE LABEL.

CAS: CHEMICAL ABSTRACT SERVICE  
PPM: PARTS PER MILLION  
TCC: TAG CLOSED CUP  
LEL: LOWER EXPLOSIVE LIMIT  
UEL: UPPER EXPLOSIVE LIMIT  
PPE: PERSONAL PROTECTION EQUIPMENT  
TOC: TAG OPEN CUP  
NA: NOT APPLICABLE  
ND: NOT DETERMINED  
NE: NOT ESTABLISHED  
G/L: GRAMS PER LITER  
LBS./GAL: POUNDS PER GALLON  
RQ: REPORTABLE QUANTITY