ITEM: 1D262 - Contact Cleaner Aerosol Can 11 oz.
ORDER: 0121071232
LP NUMBER: U855464301
MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - C4039

Associated Grainger Items:
MD02
CRC(R)

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: CRC(R) CONTACT CLEANER (AEROSOL)
PRODUCT NUMBER (S): 61330
PRODUCT USE: ELECTRONIC CLEANER
MANUFACTURER / SUPPLIER CONTACT INFORMATION:
IN UNITED STATES:
CRC INDUSTRIES, INC.
945 IRVING DRIVE
WARMINSTER, PA 18974
WWW.CRICINDUSTRIES.COM
1-215-674-4300 (GENERAL)
(800) 521-3196 (TECHNICAL)
(800) 272-4620 (CUSTOMER SERVICE)
IN CANADA:
CRC CANADA CAN.
6-1246 LOOMER DRIVE
MISSISSAUGA, ONTARIO L5G 1R2
WWW.CRC-CANADA.CA
1-905-670-2291
IN MEXICO:
CRC INDUSTRIES MEXICO
AV. BENITO JUAREZ 455 G
COLONIA GORODIA
SAN LOUIS POTOSI, SLP CP 78394
WWW.CRC-MEXICO.COM
22-444-824-1666
24-HR EMERGENCY - CHEMTREC: (800) 424-9300 OR (703) 527-3867

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER:
EXTREMELY FLAMMABLE. HARMFUL OR FATAL IF INHALED. CONTAINS UNDER PRESSURE.
AS DEFINED BY OSHA'S HAZARD COMMUNICATION STANDARD, THIS PRODUCT IS HAZARDOUS.
APPEARANCE & ODOR: CLEAR, COLORLESS LIQUID WITH ALCOHOL ODOR
POSSIBLE HEALTH EFFECTS:

ACUTE EFFECTS:
EYES: MAY CAUSE MILD IRRITATION INCLUDING STINGING AND REDNESS, BUT DOES NOT CAUSE BLINDNESS.
SKIN: SIMPLE, BRIEF EXPOSURES MAY CAUSE MILD IRRITATION. PERSISTENT OR PROLONGED CONTACT MAY CAUSE MORE SEVERE IRRITATION, DEPENDING ON THE SKIN AND INSENSITIVITY.
INHALATION: HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE Hiccups, Dizziness, Anesthesia, Inconsolability, Unconsciousness and Other Central Nervous System Effects, Including Death. MAY CAUSE PERIPHERAL NERVOUS SYSTEM DISORDER AND/OR DAMAGE.
INGESTION:
LOW ORDER OF TOXICITY BY INGESTION. MAIN HAZARD IS ASPIRATION INTO THE LUNGS DURING SWALLOWING OR VOMITING. SMALL AMOUNTS ASPIRATED INTO THE RESPIRATORY TRACT MAY CAUSE BRONCHOCONSTRICTION OR PHARYNGEAL ASPIRATION, POSSIBLY PROGRESSING TO DEATH.
CHRONIC EFFECTS:
OVEREXPOSURE TO: MEXAN MAY CAUSE PROGRESSIVE AND POTENTIALLY IRREVERSIBLE DAMAGE TO THE PERIPHERAL NERVOUS SYSTEM, PARTICULARLY IN THE ARM AND LEG.
TARGET ORGANS:
CENTRAL NERVOUS SYSTEM, PERIPHERAL NERVOUS SYSTEM, RESPIRATORY SYSTEM.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: SKIN AND RESPIRATORY CONDITIONS.
SEE SECTION 11 FOR TOXICOLOGY AND CARCINOGENICITY INFORMATION ON PRODUCT INGREDIENTS.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT
C8H12NO
CAS NUMBER
64742-49-0
% BY WT.
60 - 70

SECTION 4: FIRST AID MEASURES

EYE CONTACT:
IMMEDIATELY FLUSH WITH ABLE ONCE FOR 15 MINUTURES. CALL A PHYSICIAN IF IRRITATION PERSISTS.
SKIN CONTACT:
REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH SOAP AND WATER. CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH CONTAMINATED CLOTHING PRIOR TO USE.
INHALATION:
REMOVE PERSON TO FRESH AIR. KEEP PERSON CALM. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN.
INGESTION:
DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN IMMEDIATELY.
NOTE TO PHYSICIAN:
TREAT SYMPTOMATICALLY. CAUSTIC LAVAGE USING A CUPPED ENDODONTRICAL TIP MAY BE PERFORMED AT YOUR DISCRETION.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:
THIS PRODUCT IS EXTREMELY FLAMMABLE IN ACCORDANCE WITH AEROSOL FLAMMABILITY DEFINITIONS. (SEE 16 CFR 1500.3(f) (6).)
FLASH POINT: <0 DEG. F (7WC)
AUTOIGNITION TEMPERATURE: 489 DEG. F
UPPER EXPLOSION LIMIT: 9.0
LOWER EXPLOSION LIMIT: 1.7
PRODUCTS OF COMBUSTION:
FUMES, SMOKE AND CARBON MONOXIDE

EXPLOSION HAZARDS:
AEROSOL CONTAINERS, WHEN EXPOSED TO HEAT FROM FIRE, MAY BUILD PRESSURE AND BURST. VAPORS MAY ACCUMULATE IN A CONFINED SPACE AND CREATE A FLAMMABLE ATMOSPHERE.

PROTECTION OF FIRE-FIGHTERS:
FIREFIGHTERS SHOULD WEAR SELF-CONTAINED, NCGHP-APPROVED BREATHING APPARATUS FOR PROTECTION AGAINST SUFFOCATION AND POSSIBLE TOXIC DECOMPOSITION OF PRODUCTS. DRESS FIRE AND SKIN PROTECTION SHOULD BE PROVIDED. USE WATER SPRAY TO KEEP FIRE-EXTINGUISHED CONTAINERS COOL AND TO KNOCK DOWN VAPORS WHICH MAY REEMIT FROM PRODUCT DECOMPOSITION. DO NOT SPRAY WATER DIRECTLY ON FIRE; PRODUCT WILL FLOAT AND COULD BE REIGNITED ON SURFACE OF WATER.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8.
ENVIRONMENTAL PRECAUTIONS:
TREAT CONTAMINATED GROUND AND SURFACE WATER. DO NOT DISCHARGE INTO DITCHES OR STORM DRAINS.
METHODS FOR CONTAINMENT & CLEAN-UP:
SIZE AREA TO CONTAIN SPILLS. REMOVE ALL SOURCES OFignition. VENTILATE AREA WITH FRESH AIR. IF IN CLOSED SPACE OR LIMITED AIR Circulation AREA, CLEAN-UP WORKERS SHOULD WEAR APPROPRIATE RESPIRATORY PROTECTION. REMOVE OR ABSORB SPILLED MATERIAL USING AN ABSORBENT DESIGNED FOR CHEMICAL SPILLS. PLACE USED ABSORBENTS INTO PROPER WASTE CONTAINERS.

SECTION 7: HANDLING AND STORAGE

HANDLING PROCEDURES:
FOR TRANSPORTATION AND TRANSPORTATION PROCEDURES AND HANDLING PROCEDURES FOR TRANSFERRED MATERIALS. DO NOT USE PRODUCT NEAR ANY SOURCE OF IGNITION. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING VAPORS. USE GLOVES AND SERRATED RUBBER-RINGED METAL CONTAINER WILL CONDUCT ELECTRICITY IF IT CONTACTS A LIVE SOURCE. THIS MAY RESULT IN UNINTENDED USE FROM ELECTRICAL SHOCK AND/OR FLASH FIRE. FOR PRODUCT USE INSTRUCTIONS, PLEASE SEE THE PRODUCT LABEL.
STORAGE PROCEDURES:
STORE IN A COOL, DRY AREA OUT OF DIRECT SUNLIGHT. AEROSOL CANS MUST BE MAINTAINED BELOW 120 F TO PREVENT CANS FROM EXPLODING.
AEROSOL STORAGE LEVEL: III

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

COMPONENT
C8H12NO
OSHA STEEL
500
ACGIH STEEL
500
OTHER SOURCE
PPM

VALUES
500 (V) 1000 (V) 500 5000 NE NE NE

SYNTHETIC ISOAROMATIC
0
0
0
0
HYDROCARBON

METHANOL 200 250 (V) 200 250 NR 1000 USA PPM

1,1-DIFLUOROCARBAN NE NE NE NE 1000 USA PPM

N.E. - NOT ESTABLISHED
(C) - CERMIN
(U) - SKIN
(V) - INHALED

CONTROLS AND PROTECTION:
ENGINEERING CONTROLS: A ENSH SHOU EL HAVE VENTILATION TO PROVIDE FRESH AIR. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT THE SOURCE. PREVENTING DISPERSION INTO THE GENERAL WORK AREA. USE MECHANICAL MEANS IF NECESSARY TO MAINTAIN VAPOR LEVELS BELOW THE EXPOSURE GUIDELINES. IF WORKING IN A CONFINED SPACE, FOLLOW APPLICABLE OSHA REGULATIONS.

RESPIRATORY PROTECTION: NO REQUIRE FOR NORMAL WORK WHERE ADEQUATE VENTILATION IS PROVIDED. IF ENGINEERING CONTROLS ARE NOT PRACTICAL OR IF EXPOSURE EXCEEDS THE APPLICABLE EXPOSURE LIMITS, USE A HIGH-APPROVED CARTRIDGE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. AIR MONITORING IS NEEDED TO DETERMINE ACTUAL EXPOSURE LEVELS. USE A SELF-CONTAINED BREATHING APPARATUS IN CONFINED SPACES AND FOR SPILLS.

PPE/FACE PROTECTION:
FOR NORMAL CONDITIONS, WEAR PATIENT GLASSES. WHERE THERE IS REASONABLE PROBABILITY OF LIQUID CONTACT, WEAR SPLASH-PROOF GLOVES.

SKIN PROTECTION:
USE PROTECTIVE CLOTHING SUCH AS NITRILE, PVC, VITON. ALSO, USE FULL PROTECTIVE CLOTHING IF THERE IS PROLONCED OR REPEATED CONTACT OF LIQUID WITH SKIN.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID
COLOR: CLEAR, COLORLESS
ODOR: ALCOHOL
ODOR THRESHOLD: ND
SPECIFIC GRAVITY: 0.6699
INITIAL BOILING POINT: 140 DBR. F
FREEzing POINT: <-76 DEG. F
VAPOR PRESSURE: 180 MPa @ 68 DEG. F
VAPOR DENSITY: a1 (AIR = 1)
EVAPORATION RATE: VERY FAST
SOLUBILITY: NEGLECTIBLE IN WATER
COEFFICIENT OF WATER/OIL DISTRIBUTION: ND
pH: NA
VOLATILE ORGANIC COMPOUNDS:
MC %: 75
G/L: 521.8
lbs./gal.: 4.2

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE
CONDITIONS TO AVOID: SOURCES OF IGNITION, TEMPERATURE EXTREMES
INCOMPATIBLE MATERIALS: STRONG OXIDIZERS
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON
POSSIBILITY OF HAZARDOUS REACTIONS: NO

SECTION 11: TOXICOLOGICAL INFORMATION

LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. THE FOLLOWING INFORMATION IS AVAILABLE FOR COMPONENTS OF THIS PRODUCT.

ACUTE TOXICITY:
COMPONENT ORAL LD50 DERMAL LD50 INHALATION LD50 (DARBIT)
HEDANE ISOHES 15,000 MG/KG 2000 MG/KG NO DATA
n-HEDANE 28,710 MG/KG 3000 MG/KG 48,000 PPM/4H
SYNTHETIC ISOPARAFFINIC HYDROCARBON NO DATA NO DATA NO DATA
METHANOL 5600 MG/KG 15,800 MG/KG 81,000 MG/KG/1H
1,1-DIFLUOROCARBAN NO DATA NO DATA 25 PPM/30M

CHRONIC TOXICITY:
COMPONENT ORA CHRONIC DERM CHRONIC INHALED TOXIC EFFECTS
HEDANE ISOHES NO NO NO NO NO
n-HEDANE NO NO NO NO NO
SYNTHETIC ISOPARAFFINIC HYDROCARBON NO DATA NO DATA NO DATA
METHANOL NO NO NO E (MODERATE) / UNKNOWN S (MODERATE) / R (MODERATE)

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT. THE FOLLOWING INFORMATION IS AVAILABLE FOR COMPONENTS OF THIS PRODUCT.

BIOLOGICITY:
HEDANE:
48 HR BEEY WATER PHLEA: 3.87 MG/L
96 HR LAGOS ISOPIRED MACROCHIRI: 4.12 MG/L
PERISISTANCE / DEGRADABILITY: NO INFORMATION AVAILABLE
BIOACUMULATION / ACCUMULATION: NO INFORMATION AVAILABLE
MOBILITY IN ENVIRONMENT: NO INFORMATION AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE CLASSIFICATION: THIS DISPERSED LIQUID PRODUCT IS A NON-HAZARDOUS WASTE FOR THE CHARACTERIZATION OF HAZARDOUS WASTE IS A WASTE CODE OF D001. (PRESPIRED CONTAINERS ARE A D001 REACTIVE WASTE. (USE 40 CFR PART 261.20 - 261.33)
ANY LIQUID PRODUCT SHOULD BE MANAGED AS A HAZARDOUS WAVE. EMPTY AEROSOL CONTAINERS MAY BE RECYCLED.
ALL DISPOSAL ACTIVITIES MUST COMPLY WITH FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. LOCAL REGULATIONS MAY BE MORE STRINGENT THAN STATE, PROVINCIAL OR NATIONAL REQUIREMENTS.

SECTION 14: TRANSPORT INFORMATION

US DOT (GURG): CONSUMER COMMODITY, ORM-D
ICN/IDATA (AIR): CONSUMER COMMODITY, IIA62, 9
IMO/IMDG (WATER): AEROSOLS, UN1556, 2.1, LIMITED QUANTITY
SPECIAL PROVISIONS: NONE

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:
TOXIC SUBSTANCES CONTROL ACT (TSCA):
ALL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY AND ARE EXEMPT.
COMMERCIAL HEALTH RESPONSE, COMMISSION AND LIABILITY ACT (CERCLA):
REPORTABLE QUANTITIES (RQ) FOR THE FOLLOWING INGREDIENTS:
HEDANE (5000 LBs)
METHANOL (5000 LBs)
SPILLS OR RELEASES RESULTING IN THE LOSS OF ANY INGREDIENT AT OR ABOVE THE RG REQUIREMENTS NOTICE TO THE NATIONAL RESPONSE CENTER (800-424-8802) AND TO YOUR LOCAL EMERGENCY PLANNING COMMITTEE.
SUSPENSION AMENDMENTS REAUTHORIZATION ACT (SARA) TITLE III:
SECTION 302 EXTREME HAZARDOUS SUBSTANCES (EHS): NONE
SECTION 301/313 HAZARD CATEGORIES:
FIRST HAZARD: YES REACTIVE HAZARD: NO RELEASE OF PRESSURE: YES ACUTE HEALTH HAZARD: YES CHRONIC HEALTH HAZARD: YES
SECTION 311 TOXIC CHEMICALS:
HEDANE (5000 LBs)
METHANOL (14.8%)
CLEAN AIR ACT:
SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS): n-HEDANE, METHANOL
U.S. STATE REGULATIONS:
CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROP 65):
THIS PRODUCT MAY CONTAIN THE FOLLOWING CHEMICALS KNOW TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. MORE CONSUMER PRODUCTS VOC REGULATIONS:
THIS PRODUCT DOES NOT COMPLY WITH CONSUMER PRODUCT VOC REGULATIONS AND CAN NOT BE SOLD FOR USE IN CALIFORNIA, CONNECTICUT, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, OHIO AND PENNSYLVANIA.
CANADIAN REGULATIONS:

CONTROLLED PRODUCTS REGULATIONS:

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.

WHMIS HAZARD CLASS:

A
BS
D2H

CANADIAN DL
t INVENTORY:

ALL INGREDIENTS ARE EITHER LISTED ON THE DSL INVENTORY OR ARE EXEMPT.

EUROPEAN UNION REGULATIONS:

ROHS COMPLIANCE:


ADDITIONAL REGULATORY INFORMATION: NONE

SECTION 16: OTHER INFORMATION

NFPA:

2
3
0

RATINGS RANGE FROM 0 (NO HAZARD) TO 4 (SEVERE HAZARD)

PREPARED BY: MICHELLE RUDNICK

CRC #: 599C

REVISION DATE: 09/01/2011

CHANGES SINCE LAST REVISION:
MSDS ADAPTED TO MEET THE REQUIREMENTS OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS.

THE INFORMATION CONTAINED IN THIS DOCUMENT APPLIES TO THIS SPECIFIC MATERIAL AS SUPPLIED. IT MAY NOT BE VALID FOR THIS MATERIAL IF IT IS USED IN COMBINATION WITH ANY OTHER MATERIALS. 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. FOR FURTHER CLASSIFICATION OF ANY INFORMATION CONTAINED ON THIS MSDS CONSULT YOUR SUPERVISOR, A HEALTH & SAFETY PROFESSIONAL, OR CRC INDUSTRIES.

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

CAS: CHEMICAL ABSTRACT SERVICE
CFS: CODE OF FEDERAL REGULATIONS
DOT: DEPARTMENT OF TRANSPORTATION
DSL: DOMESTIC SUBSTANCE LIST
G/L: GRAMS PER LITER
HMIS: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IATA: INTERNATIONAL AIR TRANSPORT ASSOCIATION
ICAO: INTERNATIONAL CIVIL AVIATION ORGANIZATION
IMO: INTERNATIONAL MARITIME ORGANIZATION
LBS: GALS PER GALLON
LC: LETHAL CONCENTRATION
LD: LETHAL DOSE
NA: NOT APPLICABLE
ND: NOT DETERMINED
NIOSH: NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY & HEALTH
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PPE: PERSONAL PROTECTION EQUIPMENT
PM: PARTS PER MILLION
RCM: RESTRICTION OF HAZARDOUS SUBSTANCES
STEL: SHORT TERM EXPOSURE LIMIT
TCL: THE CLOSED CUP
TWA: TIME WEIGHTED AVERAGE
WHMIS: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM