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SDS

Common Name: QD CONTACT CLEANER 03130
Manufacturer: CRC
SDS Revision Date: 9/29/2014
SDS Format: GHS-US

Grainger Item Number(s): 1D262
Manufacturer Model Number(s):

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CRC (R*)

SAFETY DATA SHEET

1. IDENTIFICATION



PRODUCT IDENTIFIER: QD(R*) CONTACT CLEANER

OTHER MEANS OF IDENTIFICATION:

PRODUCT CODE: 03130

RECOMMENDED USE: ELECTRONIC CLEANER

RECOMMENDED RESTRICTIONS: NONE KNOWN.

MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION:

MANUFACTURED OR SOLD BY:

COMPANY NAME: CRC INDUSTRIES, INC.

ADDRESS:
885 LOUIS DR.
WARMINSTER, PA 18974

US

TELEPHONE:

GENERAL INFORMATION: 215-674-4300
TECHNICAL ASSISTANCE: 800-521-3168
CUSTOMER SERVICE: 800-272-4620

24-HOUR EMERGENCY (CHEMTREC):
800-424-9300 (US)
703-527-3887 (INTERNATIONAL)

WEBSITE: WWW.CRCINDUSTRIES.COM

2. HAZARD(S) IDENTIFICATION



PHYSICAL HAZARDS:

FLAMMABLE AEROSOLS: CATEGORY 1
GASES UNDER PRESSURE: LIQUEFIED GAS

HEALTH HAZARDS:

REPRODUCTIVE TOXICITY (FERTILITY): CATEGORY 2

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE:
CATEGORY 3 NARCOTIC EFFECTS

SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE: CATEGORY 2

ASPIRATION HAZARD: CATEGORY 1

ENVIRONMENTAL HAZARDS:

HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE HAZARD: CATEGORY 2
HAZARDOUS TO THE AQUATIC ENVIRONMENT, LONG-TERM HAZARD: CATEGORY 2

OSHA DEFINED HAZARDS: NOT CLASSIFIED.

LABEL ELEMENTS:

FLAME
GAS CYLINDER
HEALTH HAZARD
EXCLAMATION MARK

SIGNAL WORD: DANGER

HAZARD STATEMENT:

EXTREMELY FLAMMABLE AEROSOL. CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. MAY CAUSE DROWSINESS OR DIZZINESS. SUSPECTED OF DAMAGING FERTILITY. MAY CAUSE DAMAGE TO ORGANS (CENTRAL NERVOUS SYSTEM, EYES, SKIN, UPPER RESPIRATORY TRACT) THROUGH PROLONGED OR REPEATED EXPOSURE. TOXIC TO AQUATIC LIFE. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRECAUTIONARY STATEMENT:

PREVENTION:

OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE. DO NOT APPLY WHILE EQUIPMENT IS ENERGIZED.

PRESSURIZED CONTAINER:

DO NOT PIERCE OR BURN, EVEN AFTER USE. EXTINGUISH ALL FLAMES, PILOT LIGHTS AND HEATERS. VAPORS WILL ACCUMULATE READILY AND MAY IGNITE. USE ONLY WITH ADEQUATE VENTILATION; MAINTAIN VENTILATION DURING USE AND UNTIL ALL VAPORS ARE GONE. OPEN DOORS AND WINDOWS OR USE OTHER MEANS TO ENSURE A FRESH AIR SUPPLY DURING USE AND WHILE PRODUCT IS DRYING. IF YOU EXPERIENCE ANY SYMPTOMS LISTED ON THIS LABEL, INCREASE VENTILATION OR LEAVE THE AREA. DO

NOT BREATHE GAS. DO NOT BREATHE MIST OR VAPOR. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. AVOID RELEASE TO THE ENVIRONMENT.

RESPONSE:

IF SWALLOWED:
IMMEDIATELY CALL A POISON CENTER/DOCTOR. DO NOT INDUCE VOMITING.

IF INHALED:
REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL.

IF EXPOSED OR CONCERNED: GET MEDICAL ATTENTION. COLLECT SPILLAGE.

STORAGE:
STORE IN A WELL-VENTILATED PLACE. STORE LOCKED UP. PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F. EXPOSURE TO HIGH TEMPERATURE MAY CAUSE CAN TO BURST.

DISPOSAL:
DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL REGULATIONS.

HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC):
STATIC ACCUMULATING FLAMMABLE LIQUID CAN BECOME ELECTROSTATICALLY CHARGED EVEN IN BONDED AND GROUNDED EQUIPMENT. SPARKS MAY IGNITE LIQUID AND VAPOR. MAY CAUSE FLASH FIRE OR EXPLOSION.

3. COMPOSITION/INFORMATION ON INGREDIENTS



MIXTURES:

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	%
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT		64742-49-0	60 - 70
1,1-DIFLUOROETHANE	HFC-152A	75-37-6	20 - 30
N-HEXANE		110-54-3	3 - 5
2,2,4-TRIMETHYLPENTANE		540-84-1	1 - 3
ISOPROPYL ALCOHOL		67-63-0	1 - 3
2,2-DIMETHYLBUTANE		75-83-2	<0.2
2-METHYLPENTANE		107-83-5	<0.2

SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES



INHALATION:
REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

SKIN CONTACT:
RINSE SKIN WITH WATER/SHOWER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

EYE CONTACT:

RINSE WITH WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

INGESTION:

CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. RINSE MOUTH. DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD LOW SO THAT STOMACH CONTENT DOESN'T GET INTO THE LUNGS.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. ASPIRATION MAY CAUSE PULMONARY EDEMA AND PNEUMONITIS. PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. KEEP VICTIM UNDER OBSERVATION. SYMPTOMS MAY BE DELAYED.

GENERAL INFORMATION:

IF EXPOSED OR CONCERNED:

GET MEDICAL ADVICE/ATTENTION. ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, AND TAKE PRECAUTIONS TO PROTECT THEMSELVES. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

WATER FOG. FOAM. CARBON DIOXIDE (CO2). DRY CHEMICAL POWDER, CARBON DIOXIDE, SAND OR EARTH MAY BE USED FOR SMALL FIRES ONLY.

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

CONTENTS UNDER PRESSURE. PRESSURIZED CONTAINER MAY RUPTURE WHEN EXPOSED TO HEAT OR FLAME. THIS PRODUCT IS A POOR CONDUCTOR OF ELECTRICITY AND CAN BECOME ELECTROSTATICALLY CHARGED. IF SUFFICIENT CHARGE IS ACCUMULATED, IGNITION OF FLAMMABLE MIXTURES CAN OCCUR. STATIC ELECTRICITY ACCUMULATION MAY BE SIGNIFICANTLY INCREASED BY THE PRESENCE OF SMALL QUANTITIES OF WATER OR OTHER CONTAMINANTS. MATERIAL WILL FLOAT AND MAY IGNITE ON SURFACE OF WATER. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

FIREFIGHTERS MUST USE STANDARD PROTECTIVE EQUIPMENT INCLUDING FLAME RETARDANT COAT, HELMET WITH FACE SHIELD, GLOVES, RUBBER BOOTS, AND IN ENCLOSED SPACES, SCBA.

FIRE-FIGHTING EQUIPMENT/INSTRUCTIONS:

IN CASE OF FIRE:

STOP LEAK IF SAFE TO DO SO. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP.

GENERAL FIRE HAZARDS:

EXTREMELY FLAMMABLE AEROSOL. CONTENTS UNDER PRESSURE. PRESSURIZED CONTAINER MAY RUPTURE WHEN EXPOSED TO HEAT OR FLAME.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. KEEP OUT OF LOW AREAS. REMOVE ALL POSSIBLE SOURCES OF IGNITION IN THE SURROUNDING AREA. MANY GASES ARE HEAVIER THAN AIR AND WILL SPREAD ALONG GROUND AND COLLECT IN LOW OR CONFINED AREAS (SEWERS, BASEMENTS, TANKS). WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT BREATHE MIST OR VAPOR. DO NOT BREATHE GAS. EMERGENCY PERSONNEL NEED SELF-CONTAINED BREATHING EQUIPMENT. DO NOT TOUCH DAMAGED CONTAINERS OR

SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. VENTILATE CLOSED SPACES BEFORE ENTERING THEM. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL. THIS MATERIAL IS CLASSIFIED AS A WATER POLLUTANT UNDER THE CLEAN WATER ACT AND SHOULD BE PREVENTED FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS WHICH LEAD TO WATERWAYS. STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS.

ENVIRONMENTAL PRECAUTIONS:

AVOID RELEASE TO THE ENVIRONMENT. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. INFORM APPROPRIATE MANAGERIAL OR SUPERVISORY PERSONNEL OF ALL ENVIRONMENTAL RELEASES. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

7. HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING:

OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. MINIMIZE FIRE RISKS FROM FLAMMABLE AND COMBUSTIBLE MATERIALS (INCLUDING COMBUSTIBLE DUST AND STATIC ACCUMULATING LIQUIDS) OR DANGEROUS REACTIONS WITH INCOMPATIBLE MATERIALS. HANDLING OPERATIONS THAT CAN PROMOTE ACCUMULATION OF STATIC CHARGES INCLUDE BUT ARE NOT LIMITED TO:
MIXING, FILTERING, PUMPING AT HIGH FLOW RATES, SPLASH FILLING, CREATING MISTS OR SPRAYS, TANK AND CONTAINER FILLING, TANK CLEANING, SAMPLING, GAUGING, SWITCH LOADING, VACUUM TRUCK OPERATIONS.

PRESSURIZED CONTAINER:

DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT USE IF SPRAY BUTTON IS MISSING OR DEFECTIVE. DO NOT SPRAY ON A NAKED FLAME OR ANY OTHER INCANDESCENT MATERIAL. DO NOT SMOKE WHILE USING OR UNTIL SPRAYED SURFACE IS THOROUGHLY DRY. DO NOT CUT, WELD, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. USE CAUTION AROUND ENERGIZED EQUIPMENT. THE METAL CONTAINER WILL CONDUCT ELECTRICITY IF IT CONTACTS A LIVE SOURCE. THIS MAY RESULT IN INJURY TO THE USER FROM ELECTRICAL SHOCK AND/OR FLASH FIRE. DO NOT BREATHE MIST OR VAPOR. DO NOT BREATHE GAS. AVOID PROLONGED EXPOSURE. PREGNANT OR BREASTFEEDING WOMEN MUST NOT HANDLE THIS PRODUCT. SHOULD BE HANDLED IN CLOSED SYSTEMS, IF POSSIBLE. USE ONLY IN WELL-VENTILATED AREAS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WASH HANDS THOROUGHLY AFTER HANDLING. AVOID RELEASE TO THE ENVIRONMENT. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES. FOR PRODUCT USAGE INSTRUCTIONS, PLEASE SEE THE PRODUCT LABEL.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
LEVEL 3 AEROSOL.

PRESSURIZED CONTAINER. PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. THIS MATERIAL CAN ACCUMULATE STATIC CHARGE WHICH MAY CAUSE SPARK AND BECOME AN IGNITION SOURCE. AVOID SPARK PROMOTERS. THESE ALONE MAY BE INSUFFICIENT TO REMOVE STATIC ELECTRICITY. STORE IN A WELL-VENTILATED PLACE. STORE AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10 OF THE SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



OCCUPATIONAL EXPOSURE LIMITS:

US. OSHA TABLE Z-1 LIMITS FOR AIR CONTAMINANTS (29 CFR 1910.1000):

COMPONENTS	TYPE	VALUE
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)	PEL	2350 MG/M3 500 PPM
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 MG/M3 400 PPM
N-HEXANE (CAS 110-54-3)	PEL	1800 MG/M3 500 PPM

US. ACGIH THRESHOLD LIMIT VALUES:

COMPONENTS	TYPE	VALUE
2,2-DIMETHYLBUTANE (CAS 75-83-2)	STEL	1000 PPM
	TWA	500 PPM
2-METHYLPENTANE (CAS 107-83-5)	STEL	1000 PPM
	TWA	500 PPM
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	400 PPM
	TWA	200 PPM
N-HEXANE (CAS 110-54-3)	TWA	50 PPM

US. NIOSH POCKET GUIDE TO CHEMICAL HAZARDS:

COMPONENTS	TYPE	VALUE
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)	CEILING	1800 MG/M3 385 PPM
	TWA	350 MG/M3 75 PPM
2,2-DIMETHYLBUTANE (CAS 75-83-2)	CEILING	1800 MG/M3 510 PPM
	TWA	350 MG/M3 100 PPM
2-METHYLPENTANE (CAS 107-83-5)	CEILING	1800 MG/M3 510 PPM
	TWA	350 MG/M3 100 PPM
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	1225 MG/M3 500 PPM
	TWA	980 MG/M3 400 PPM
N-HEXANE (CAS 110-54-3)	TWA	180 MG/M3 50 PPM

US. AIHA WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WEEL) GUIDES:

COMPONENTS	TYPE	VALUE
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APPEARANCE:

PHYSICAL STATE: LIQUID.

FORM: AEROSOL.

COLOR: CLEAR. COLORLESS.

ODOR: ALCOHOLIC.

ODOR THRESHOLD: NOT AVAILABLE.

PH: NOT AVAILABLE.

MELTING POINT/FREEZING POINT: -127.3 DEG. F (-88.5 DEG. C) ESTIMATED

INITIAL BOILING POINT AND BOILING RANGE: 123 DEG. F (50.6 DEG. C) ESTIMATED

FLASH POINT: <0 DEG. F (<-17.8 DEG. C) TAG CLOSED CUP

EVAPORATION RATE: VERY FAST.

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:
FLAMMABILITY LIMIT - LOWER (%): 0.9% ESTIMATED
FLAMMABILITY LIMIT - UPPER (%): 12% ESTIMATED

VAPOR PRESSURE: 2141.3 HPA ESTIMATED

VAPOR DENSITY: >1 (AIR = 1)

RELATIVE DENSITY: 0.72 ESTIMATED

SOLUBILITY (WATER): NEGLIGIBLE.

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT AVAILABLE.

AUTO-IGNITION TEMPERATURE: 489.2 DEG. F (254 DEG. C) ESTIMATED

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY (KINEMATIC): NOT AVAILABLE.

PERCENT VOLATILE: 100% ESTIMATED

10. STABILITY AND REACTIVITY

REACTIVITY:

THE PRODUCT IS STABLE AND NON-REACTIVE UNDER NORMAL CONDITIONS OF USE,
STORAGE AND TRANSPORT.

CHEMICAL STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS:

NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.

CONDITIONS TO AVOID:

HEAT, FLAMES AND SPARKS. CONTACT WITH INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS. STRONG ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INGESTION:

DROPLETS OF THE PRODUCT ASPIRATED INTO THE LUNGS THROUGH INGESTION OR VOMITING MAY CAUSE A SERIOUS CHEMICAL PNEUMONIA.

INHALATION:

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE BY INHALATION. MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. PROLONGED INHALATION MAY BE HARMFUL.

SKIN CONTACT: NO ADVERSE EFFECTS DUE TO SKIN CONTACT ARE EXPECTED.

EYE CONTACT: DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. ASPIRATION MAY CAUSE PULMONARY EDEMA AND PNEUMONITIS.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. NARCOTIC EFFECTS.

PRODUCT	SPECIES	TEST RESULTS
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QD(R*) CONTACT CLEANER:

ACUTE:

DERMAL:

LD50	RABBIT	2807.0864 MG/KG ESTIMATED
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INHALATION:

LC50	RAT	29004.0918 PPM, 4 HOURS ESTIMATED 29.3555 MG/L, 4 HOURS ESTIMATED
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ORAL:

LD50	RAT	21091.707 MG/KG ESTIMATED
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* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

SKIN CORROSION/IRRITATION:

PROLONGED SKIN CONTACT MAY CAUSE TEMPORARY IRRITATION.

SERIOUS EYE DAMAGE/EYE IRRITATION:

DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION.

RESPIRATORY SENSITIZATION: NOT AVAILABLE.

SKIN SENSITIZATION:

THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN SENSITIZATION.

GERM CELL MUTAGENICITY:

NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% ARE MUTAGENIC OR GENOTOXIC.

CARCINOGENICITY:

THIS PRODUCT IS NOT CONSIDERED TO BE A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA.

REPRODUCTIVE TOXICITY: SUSPECTED OF DAMAGING FERTILITY.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:
MAY CAUSE DROWSINESS AND DIZZINESS.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE:
CENTRAL NERVOUS SYSTEM. EYES. SKIN. UPPER RESPIRATORY TRACT.

ASPIRATION HAZARD:
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. IF ASPIRATED INTO LUNGS
DURING SWALLOWING OR VOMITING, MAY CAUSE CHEMICAL PNEUMONIA, PULMONARY
INJURY OR DEATH.

CHRONIC EFFECTS:
PROLONGED INHALATION MAY BE HARMFUL. MAY CAUSE DAMAGE TO ORGANS THROUGH
PROLONGED OR REPEATED EXPOSURE.

12. ECOLOGICAL INFORMATION



ECOTOXICITY: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRODUCT	SPECIES	TEST RESULTS
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QD(R*) CONTACT CLEANER:

AQUATIC:

FISH	LC50	FISH	1703.5929 MG/L, 96 HOURS ESTIMATED
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COMPONENTS	SPECIES	TEST RESULTS
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ISOPROPYL ALCOHOL (CAS 67-63-0):

AQUATIC:

ACUTE:

CRUSTACEA	EC50	WATER FLEA (DAPHNIA MAGNA)	7550 - 13299 MG/L, 48 HOURS
FISH	LC50	FATHEAD MINNOW (PIMEPHALES PROMELAS)	3200 MG/L, 96 HOURS

N-HEXANE (CAS 110-54-3):

AQUATIC:

FISH	LC50	FATHEAD MINNOW (PIMEPHALES PROMELAS)	2.101 - 2.981 MG/L, 96 HOURS
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* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

PERSISTENCE AND DEGRADABILITY:
NO DATA IS AVAILABLE ON THE DEGRADABILITY OF THIS PRODUCT.

BIOACCUMULATIVE POTENTIAL: NO DATA AVAILABLE.

PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW):

1,1-DIFLUOROETHANE: 0.75
2,2,4-TRIMETHYLPENTANE: 5.18
2,2-DIMETHYLBUTANE: 3.82
2-METHYLPENTANE: 3.74
ISOPROPYL ALCOHOL: 0.05
N-HEXANE: 3.9

MOBILITY IN SOIL: NO DATA AVAILABLE.

OTHER ADVERSE EFFECTS:

NO OTHER ADVERSE ENVIRONMENTAL EFFECTS (E.G. OZONE DEPLETION, PHOTOCHEMICAL OZONE CREATION POTENTIAL, ENDOCRINE DISRUPTION, GLOBAL WARMING POTENTIAL) ARE EXPECTED FROM THIS COMPONENT.

13. DISPOSAL CONSIDERATIONS

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DISPOSAL OF WASTE FROM RESIDUES / UNUSED PRODUCTS:

IF DISCARDED, THIS PRODUCT IS CONSIDERED A RCRA IGNITABLE WASTE, D001. COLLECT AND RECLAIM OR DISPOSE IN SEALED CONTAINERS AT LICENSED WASTE DISPOSAL SITE. CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO SEWERS/WATER SUPPLIES. DO NOT CONTAMINATE PONDS, WATERWAYS OR DITCHES WITH CHEMICAL OR USED CONTAINER. DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

HAZARDOUS WASTE CODE:

D001: WASTE FLAMMABLE MATERIAL WITH A FLASH POINT <140 F

CONTAMINATED PACKAGING:

EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR RECYCLING OR DISPOSAL. SINCE EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

14. TRANSPORT INFORMATION

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DOT:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE, LIMITED QUANTITY

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.1

SUBSIDIARY RISK:

LABEL(S): 2.1

PACKING GROUP: NOT APPLICABLE.

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

SPECIAL PROVISIONS: N82

PACKAGING EXCEPTIONS: 306

PACKAGING NON BULK: NONE

PACKAGING BULK: NONE

IATA:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE, LIMITED QUANTITY

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.1

SUBSIDIARY RISK:

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS: YES

ERG CODE: 10L

SPECIAL PRECAUTIONS FOR USER:
READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

OTHER INFORMATION:

PASSENGER AND CARGO AIRCRAFT: ALLOWED.

CARGO AIRCRAFT ONLY: ALLOWED.

IMDG:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS, LIMITED QUANTITY, MARINE POLLUTANT

TRANSPORT HAZARD CLASS(ES):

CLASS: 2

SUBSIDIARY RISK:

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: YES

EMS: F-D, S-U

SPECIAL PRECAUTIONS FOR USER:
READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

GENERAL INFORMATION: IMDG REGULATED MARINE POLLUTANT.

15. REGULATORY INFORMATION



US FEDERAL REGULATIONS:
THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

ALL COMPONENTS ARE ON THE U.S. EPA TSCA INVENTORY LIST.

TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUBPT. D):
NOT REGULATED.

SARA 304 EMERGENCY RELEASE NOTIFICATION: NOT REGULATED.

US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050):
NOT LISTED.

US EPCRA (SARA TITLE III) SECTION 313 - TOXIC CHEMICAL LISTED SUBSTANCE

N-HEXANE (CAS 110-54-3)

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4):
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
N-HEXANE (CAS 110-54-3)

CERCLA HAZARDOUS SUBSTANCES

REPORTABLE QUANTITY

2,2,4-TRIMETHYLPENTANE (CAS 540-84-1) 1000 LBS
N-HEXANE (CAS 110-54-3) 5000 LBS

SPILLS OR RELEASES RESULTING IN THE LOSS OF ANY INGREDIENT AT OR ABOVE ITS RQ REQUIRE IMMEDIATE NOTIFICATION TO THE NATIONAL RESPONSE CENTER (800-424-8802) AND TO YOUR LOCAL EMERGENCY PLANNING COMMITTEE.

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST:
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
N-HEXANE (CAS 110-54-3)

CLEAN AIR ACT (CAA) SECTION 112(R) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130):
1,1-DIFLUOROETHANE (CAS 75-37-6)

SAFE DRINKING WATER ACT (SDWA): NOT REGULATED.

FOOD AND DRUG ADMINISTRATION (FDA): NOT REGULATED.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

SECTION 311/312 HAZARD CATEGORIES:
IMMEDIATE HAZARD: YES
DELAYED HAZARD: YES
FIRE HAZARD: YES
PRESSURE HAZARD: YES
REACTIVITY HAZARD: NO

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: NO

US STATE REGULATIONS:

US. CALIFORNIA CONTROLLED SUBSTANCES. CA DEPARTMENT OF JUSTICE (CALIFORNIA HEALTH AND SAFETY CODE SECTION 11100): NOT LISTED.

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT:
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
2,2-DIMETHYLBUTANE (CAS 75-83-2)
2-METHYLPENTANE (CAS 107-83-5)
1,1-DIFLUOROETHANE (CAS 75-37-6)
ISOPROPYL ALCOHOL (CAS 67-63-0)
N-HEXANE (CAS 110-54-3)

US. MASSACHUSETTS RTK - SUBSTANCE LIST:
1,1-DIFLUOROETHANE (CAS 75-37-6)
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
ISOPROPYL ALCOHOL (CAS 67-63-0)
N-HEXANE (CAS 110-54-3)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW:
ISOPROPYL ALCOHOL (CAS 67-63-0)
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
2,2-DIMETHYLBUTANE (CAS 75-83-2)
2-METHYLPENTANE (CAS 107-83-5)
N-HEXANE (CAS 110-54-3)

US. RHODE ISLAND RTK:
1,1-DIFLUOROETHANE (CAS 75-37-6)
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
N-HEXANE (CAS 110-54-3)

US. CALIFORNIA PROPOSITION 65:
CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65):
THIS MATERIAL IS NOT KNOWN TO CONTAIN ANY CHEMICALS CURRENTLY LISTED AS CARCINOGENS OR REPRODUCTIVE TOXINS.

VOLATILE ORGANIC COMPOUNDS (VOC) REGULATIONS:

EPA:

VOC CONTENT (40 CFR 51.100(S)): 74.3%
 CONSUMER PRODUCTS (40 CFR 59, SUBPT. C): NOT REGULATED

STATE:

CONSUMER PRODUCTS:

THIS PRODUCT IS REGULATED AS AN ELECTRONIC CLEANER. THIS PRODUCT IS COMPLIANT FOR USE IN ALL 50 STATES.

VOC CONTENT (CA): 74.3%

VOC CONTENT (OTC): 74.3%

INTERNATIONAL INVENTORIES:

COUNTRY(S) OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO)*
AUSTRALIA	AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS)	YES
CANADA	DOMESTIC SUBSTANCES LIST (DSL)	YES
CANADA	NON-DOMESTIC SUBSTANCES LIST (NDSL)	NO
CHINA	INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC)	YES
EUROPE	EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS)	YES
EUROPE	EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS)	NO
JAPAN	INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS)	NO
KOREA	EXISTING CHEMICALS LIST (ECL)	YES
NEW ZEALAND	NEW ZEALAND INVENTORY	YES
PHILIPPINES	PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES (PICCS)	YES
UNITED STATES & PUERTO RICO	TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY	YES

*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING COUNTRY(S)

A "NO" INDICATES THAT ONE OR MORE COMPONENTS OF THE PRODUCT ARE NOT LISTED OR EXEMPT FROM LISTING ON THE INVENTORY ADMINISTERED BY THE GOVERNING COUNTRY(S).

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION

OR LAST REVISION

ISSUE DATE: 09-29-2014

PREPARED BY: ALLISON CHO

VERSION #: 01

FURTHER INFORMATION: CRC # 957

HMIS (R*) RATINGS:

HEALTH 1*
FLAMMABILITY 4
PHYSICAL HAZARD 0
PERSONAL PROTECTION B

NFPA RATINGS:

HEALTH 1
FLAMMABILITY 4
INSTABILITY 0

NFPA RATINGS:

1
4
0

DISCLAIMER:

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MATERIAL NAME: QD(R*) CONTACT CLEANER

SDS US