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SDS

Common Name: QD CONTACT CLEANER NO. 03130 (ITEM 1003407)**Manufacturer:** CRC INDUSTRIES**SDS Revision Date:** 12/18/2018**SDS Format:** GHS-US**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: NO. 03130 (ITEM# 1003407)

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)

WEBSITE: WWW.CRCINDUSTRIES.COM

2. HAZARD(S) IDENTIFICATION



PHYSICAL HAZARDS:

FLAMMABLE AEROSOLS: CATEGORY 1
GASES UNDER PRESSURE: LIQUEFIED GAS

HEALTH HAZARDS:

SKIN CORROSION/IRRITATION: CATEGORY 2

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE:

CATEGORY 3 NARCOTIC EFFECTS
ASPIRATION HAZARD: CATEGORY 1

ENVIRONMENTAL HAZARDS:

HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE HAZARD: CATEGORY 1

HAZARDOUS TO THE AQUATIC ENVIRONMENT, LONG-TERM HAZARD: CATEGORY 1

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. CAUSES SKIN IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. VERY TOXIC TO AQUATIC LIFE. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRECAUTIONARY STATEMENT:

PREVENTION:

KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE.

PRESSURIZED CONTAINER:

DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT APPLY WHILE EQUIPMENT IS ENERGIZED. 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. AVOID BREATHING MIST/VAPOR. WASH THOROUGHLY AFTER HANDLING. WEAR PROTECTIVE GLOVES. AVOID RELEASE TO THE ENVIRONMENT.

RESPONSE:

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

IF ON SKIN: WASH WITH PLENTY OF WATER.

IF SKIN IRRITATION OCCURS:
GET MEDICAL ADVICE/ATTENTION. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

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

SUPPLEMENTAL INFORMATION: NONE.

3. COMPOSITION/INFORMATION ON INGREDIENTS



MIXTURES:

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	%
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT		64742-49-0	30 - 40
1,1-DIFLUOROETHANE		75-37-6	20 - 30
N-HEPTANE		142-82-5	10 - 20
3-METHYLHEXANE		589-34-4	5 - 10
METHYLCYCLOHEXANE		108-87-2	5 - 10
2,2,4-TRIMETHYLPENTANE		540-84-1	3 - 5
2-METHYLHEXANE		591-76-4	3 - 5
2,3-DIMETHYLPENTANE		565-59-3	1 - 3
3-ETHYLPENTANE		617-78-7	1 - 3
3,3-DIMETHYLPENTANE		562-49-2	<1

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:

REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF SOAP AND WATER.

IF SKIN IRRITATION OCCURS:

GET MEDICAL ADVICE/ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSE.

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:

ASPIRATION MAY CAUSE PULMONARY EDEMA AND PNEUMONITIS. MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. SKIN IRRITATION. MAY CAUSE REDNESS AND PAIN.

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:

ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, AND TAKE PRECAUTIONS TO PROTECT THEMSELVES.

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:

DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.

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. USE STANDARD FIREFIGHTING PROCEDURES AND CONSIDER THE HAZARDS OF OTHER INVOLVED MATERIALS. IN THE EVENT OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES.

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. REMOVE ALL POSSIBLE SOURCES OF IGNITION IN THE SURROUNDING AREA. KEEP OUT OF LOW AREAS. 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. AVOID BREATHING MIST/VAPOR. 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 PRODUCT IS MISCIBLE IN WATER. PREVENT PRODUCT FROM ENTERING DRAINS. 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. INFORM APPROPRIATE MANAGERIAL OR SUPERVISORY PERSONNEL OF ALL ENVIRONMENTAL RELEASES. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

7. HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING: MINIMIZE FIRE RISKS FROM FLAMMABLE AND COMBUSTIBLE MATERIALS (INCLUDING COMBUSTIBLE DUST AND STATIC ACCUMULATING LIQUIDS) OR DANGEROUS REACTIONS WITH INCOMPATIBLE MATERIALS. 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. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED EXPOSURE. 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, 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 TIGHTLY CLOSED CONTAINER. STORE IN A WELL-VENTILATED PLACE. STORED CONTAINERS SHOULD BE

PERIODICALLY CHECKED FOR GENERAL CONDITION AND LEAKAGE. STORE AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10 OF THE SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



OCCUPATIONAL EXPOSURE LIMITS:

THE FOLLOWING CONSTITUENTS ARE THE ONLY CONSTITUENTS OF THE PRODUCT WHICH HAVE A PEL, TLV OR OTHER RECOMMENDED EXPOSURE LIMIT. AT THIS TIME, THE OTHER CONSTITUENTS HAVE NO KNOWN 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
METHYLCYCLOHEXANE (CAS 108-87-2)	PEL	2000 MG/M3
		500 PPM
NAPHTHA (PETROLEUM),	PEL	400 MG/M3
HYDROTREATED LIGHT (CAS 64742-49-0)		
N-HEPTANE (CAS 142-82-5)	PEL	100 PPM
		2000 MG/M3
		500 PPM

US. ACGIH THRESHOLD LIMIT VALUES:

COMPONENTS	TYPE	VALUE
2,3-DIMETHYLPENTANE (CAS 565-59-3)	STEL	500 PPM
	TWA	400 PPM
2-METHYLHEXANE (CAS 591-76-4)	STEL	500 PPM
	TWA	400 PPM
3,3-DIMETHYLPENTANE (CAS 562-49-2)	STEL	500 PPM
	TWA	400 PPM
3-ETHYLPENTANE (CAS 617-78-7)	STEL	500 PPM
	TWA	400 PPM
3-METHYLHEXANE (CAS 589-34-4)	STEL	500 PPM
	TWA	400 PPM
METHYLCYCLOHEXANE (CAS 108-87-2)	TWA	400 PPM
N-HEPTANE (CAS 142-82-5)	STEL	500 PPM
	TWA	400 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
METHYLCYCLOHEXANE (CAS 108-87-2)	TWA	1600 MG/M3
		400 PPM
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-49-0)	TWA	400 MG/M3
		100 PPM
N-HEPTANE (CAS 142-82-5)	CEILING	1800 MG/M3
		440 PPM
	TWA	350 MG/M3
		85 PPM

US. WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WEEL) GUIDES:

COMPONENTS	TYPE	VALUE
1,1-DIFLUOROETHANE (CAS 75-37-6)	TWA	2700 MG/M3
		1000 PPM

BIOLOGICAL LIMIT VALUES:

NO BIOLOGICAL EXPOSURE LIMITS NOTED FOR THE INGREDIENT(S).

APPROPRIATE ENGINEERING CONTROLS:

GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. IF APPLICABLE, USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. IF EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED, MAINTAIN AIRBORNE LEVELS TO AN ACCEPTABLE LEVEL. PROVIDE EYEWASH STATION AND SAFETY SHOWER.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:

WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

SKIN PROTECTION:

HAND PROTECTION:

WEAR PROTECTIVE GLOVES SUCH AS: POLYVINYL ALCOHOL (PVA). VITON/BUTYL.

OTHER: WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING.

RESPIRATORY PROTECTION:

IF ENGINEERING CONTROLS ARE NOT FEASIBLE OR IF EXPOSURE EXCEEDS THE APPLICABLE EXPOSURE LIMITS, USE A NIOSH-APPROVED CARTRIDGE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE. USE A SELF-CONTAINED BREATHING APPARATUS IN CONFINED SPACES AND FOR EMERGENCIES. AIR MONITORING IS NEEDED TO DETERMINE ACTUAL EMPLOYEE EXPOSURE LEVELS.

THERMAL HAZARDS:

WEAR APPROPRIATE THERMAL PROTECTIVE CLOTHING, WHEN NECESSARY.

GENERAL HYGIENE CONSIDERATIONS:

WHEN USING DO NOT SMOKE. ALWAYS OBSERVE GOOD PERSONAL HYGIENE MEASURES, SUCH AS WASHING AFTER HANDLING THE MATERIAL AND BEFORE EATING, DRINKING, AND/OR SMOKING. ROUTINELY WASH WORK CLOTHING AND PROTECTIVE EQUIPMENT TO REMOVE CONTAMINANTS.

9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE:

PHYSICAL STATE: LIQUID.

FORM: AEROSOL.

COLOR: COLORLESS.

ODOR: HYDROCARBON-LIKE.

ODOR THRESHOLD: NOT AVAILABLE.

PH: NOT AVAILABLE.

MELTING POINT/FREEZING POINT: -195.9 DEG. F (-126.6 DEG. C) ESTIMATED

INITIAL BOILING POINT AND BOILING RANGE: 179.6 DEG. F (82 DEG. C) ESTIMATED

FLASH POINT: 15.8 DEG. F (-9 DEG. C) ESTIMATED

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: 2003.8 HPA ESTIMATED

VAPOR DENSITY: >1 (AIR = 1)

RELATIVE DENSITY: 0.75 ESTIMATED

SOLUBILITY (IES):

SOLUBILITY (WATER): NEGLIGIBLE.

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

AUTO-IGNITION TEMPERATURE: 509 DEG. F (265 DEG. C) ESTIMATED

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY: NOT AVAILABLE.

PERCENT VOLATILE: 98.1% 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:
KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. CONTACT WITH INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES.

11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INHALATION:
MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. PROLONGED INHALATION MAY BE HARMFUL.

SKIN CONTACT: CAUSES SKIN IRRITATION.

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

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

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

ASPIRATION MAY CAUSE PULMONARY EDEMA AND PNEUMONITIS. MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. SKIN IRRITATION. MAY CAUSE REDNESS AND PAIN.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

COMPONENTS	SPECIES	TEST RESULTS
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2,2,4-TRIMETHYLPENTANE (CAS 540-84-1):

ACUTE:

INHALATION:

LC50	RAT	118 MG/L, 4 HOURS
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3-METHYLHEXANE (CAS 589-34-4):

ACUTE:

DERMAL:

LD50	RABBIT	>2000 MG/KG
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INHALATION:

LC50	RAT	>20 MG/L, 4 HOURS
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ORAL:

LD50	RAT	>2000 MG/KG
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METHYLCYCLOHEXANE (CAS 108-87-2):

ACUTE:

DERMAL:

LD50 RABBIT >2000 MG/KG

ORAL:

LD50 RAT >4000 MG/KG

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-49-0):

ACUTE:

DERMAL:

LD50 RABBIT >2000 MG/KG

INHALATION:

LC50 RAT 61 MG/L, 4 HOURS

ORAL:

LD50 RAT >5000 MG/KG

N-HEPTANE (CAS 142-82-5):

ACUTE:

DERMAL:

LD50 RABBIT 3000 MG/KG

INHALATION:

VAPOR:

LC50 RAT >73.5 MG/L, 4 HOURS

ORAL:

LD50 RAT 25000 MG/KG

SKIN CORROSION/IRRITATION: CAUSES SKIN IRRITATION.

SERIOUS EYE DAMAGE/EYE IRRITATION:
DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION.

RESPIRATORY OR SKIN SENSITIZATION:
RESPIRATORY SENSITIZATION: NOT A RESPIRATORY SENSITIZER.

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: NOT CLASSIFIABLE AS TO CARCINOGENICITY TO HUMANS.

IARC MONOGRAPHS. OVERALL EVALUATION OF CARCINOGENICITY: NOT LISTED.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1052):
NOT REGULATED.

US. NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS: NOT LISTED.

REPRODUCTIVE TOXICITY:

THIS PRODUCT IS NOT EXPECTED TO CAUSE REPRODUCTIVE OR DEVELOPMENTAL EFFECTS.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

MAY CAUSE DROWSINESS AND DIZZINESS.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: NOT CLASSIFIED.

ASPIRATION HAZARD: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

CHRONIC EFFECTS: PROLONGED INHALATION MAY BE HARMFUL.

12. ECOLOGICAL INFORMATION



ECOTOXICITY:

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PERSISTENCE AND DEGRADABILITY:

NO DATA IS AVAILABLE ON THE DEGRADABILITY OF ANY INGREDIENTS IN THE MIXTURE.

BIOACCUMULATIVE POTENTIAL:

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

1,1-DIFLUOROETHANE: 0.75

2,2,4-TRIMETHYLPENTANE: 5.18

METHYLCYCLOHEXANE: 3.61

N-HEPTANE: 4.66

BIOCONCENTRATION FACTOR (BCF):

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT: 10 - 25000

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



DISPOSAL INSTRUCTIONS

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:

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

14. TRANSPORT INFORMATION



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.

ENVIRONMENTAL HAZARDS:
MARINE POLLUTANT: YES, BUT EXEMPT FROM THE REGULATIONS.

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.
ERG CODE: 10L

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

OTHER INFORMATION:
PASSENGER AND CARGO AIRCRAFT: ALLOWED WITH RESTRICTIONS.
CARGO AIRCRAFT ONLY: ALLOWED WITH RESTRICTIONS.

IMDG:
UN NUMBER: UN1950
UN PROPER SHIPPING NAME: AEROSOLS, LIMITED QUANTITY
TRANSPORT HAZARD CLASS(ES):
CLASS: 2.1
SUBSIDIARY RISK:
PACKING GROUP: NOT APPLICABLE.
ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: YES, BUT EXEMPT FROM THE REGULATIONS.

EMS: F-D, S-U

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

DOT; IMDG: LIMITED QUANTITY FOR PACKAGES NOT PREPARED FOR AIR TRANSPORT

IATA: LIMITED QUANTITY FOR PACKAGES PREPARED FOR AIR TRANSPORT

15. REGULATORY INFORMATION



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

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

SARA 304 EMERGENCY RELEASE NOTIFICATION:
NOT REGULATED.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1052):
NOT REGULATED.

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4):
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1): LISTED.

CERCLA HAZARDOUS SUBSTANCES	REPORTABLE QUANTITY
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)	1000 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.

OTHER FEDERAL REGULATIONS:

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

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: NOT REGULATED.

ADMINISTRATION (FDA):

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

CLASSIFIED HAZARD CATEGORIES:
FLAMMABLE (GASES, AEROSOLS, LIQUIDS, OR SOLIDS)
GAS UNDER PRESSURE
ACUTE TOXICITY (ANY ROUTE OF EXPOSURE)
SKIN CORROSION OR IRRITATION
SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED EXPOSURE)
ASPIRATION HAZARD
HAZARD NOT OTHERWISE CLASSIFIED (HNOC)

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: NOT LISTED.

SARA 311/312 HAZARDOUS CHEMICAL: YES

SARA 313 (TRI REPORTING): NOT REGULATED.

US STATE REGULATIONS:

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT:
1,1-DIFLUOROETHANE (CAS 75-37-6)
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
2,3-DIMETHYLPENTANE (CAS 565-59-3)
3-METHYLHEXANE (CAS 589-34-4)
METHYLCYCLOHEXANE (CAS 108-87-2)
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-49-0)
N-HEPTANE (CAS 142-82-5)

US. MASSACHUSETTS RTK - SUBSTANCE LIST:
1,1-DIFLUOROETHANE (CAS 75-37-6)
2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
2,3-DIMETHYLPENTANE (CAS 565-59-3)
2-METHYLHEXANE (CAS 591-76-4)

3-METHYLHEXANE (CAS 589-34-4)
 METHYLCYCLOHEXANE (CAS 108-87-2)
 NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-49-0)
 N-HEPTANE (CAS 142-82-5)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW:
 2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
 2,3-DIMETHYLPENTANE (CAS 565-59-3)
 2-METHYLHEXANE (CAS 591-76-4)
 3,3-DIMETHYLPENTANE (CAS 562-49-2)
 3-METHYLHEXANE (CAS 589-34-4)
 METHYLCYCLOHEXANE (CAS 108-87-2)
 NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-49-0)
 N-HEPTANE (CAS 142-82-5)

US. RHODE ISLAND RTK:
 2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
 METHYLCYCLOHEXANE (CAS 108-87-2)
 NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-49-0)
 N-HEPTANE (CAS 142-82-5)

CALIFORNIA PROPOSITION 65:

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 2016
 (PROPOSITION 65):
 THIS MATERIAL IS NOT KNOWN TO CONTAIN ANY CHEMICALS CURRENTLY LISTED AS
 CARCINOGENS OR REPRODUCTIVE TOXINS. FOR MORE INFORMATION GO TO
 WWW.P65WARNINGS.CA.GOV.

US. CALIFORNIA. CANDIDATE CHEMICALS LIST. SAFER CONSUMER PRODUCTS
 REGULATIONS (CAL. CODE TEGS, TIT. 22, 69502.3, SUBD. (A)):
 2,2,4-TRIMETHYLPENTANE (CAS 540-84-1)
 NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-49-0)

VOLATILE ORGANIC COMPOUNDS (VOC) REGULATIONS:

EPA:

VOC CONTENT 51.100(S): (40 CFR 74.9%

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): 74.9%

VOC CONTENT (OTC): 74.9%

INTERNATIONAL INVENTORIES:

COUNTRY(S) OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO) *
AUSTRALIA	AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS)	NO
CANADA	DOMESTIC SUBSTANCES LIST (DSL)	NO
CANADA	NON-DOMESTIC SUBSTANCES LIST (NDSL)	YES
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
TAIWAN	TAIWAN CHEMICAL SUBSTANCE INVENTORY (TCSI)	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

REVISION DATE: 12-18-2018

PREPARED BY: ALLISON YOON

VERSION #: 05

FURTHER INFORMATION CRC #: 1750971

DISCLAIMER:

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REVISION INFORMATION:

THIS DOCUMENT HAS UNDERGONE SIGNIFICANT CHANGES AND SHOULD BE REVIEWED IN ITS ENTIRETY.

MATERIAL NAME: QD(R*) CONTACT CLEANER

SDS US