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Common Name: HEAVY DUTY DEGREASER 03095, 03095T

Manufacturer: CRC

MSDS Revision Date: 5/19/2014

MSDS Format: GHS-US

Grainger Item Number(s): 1D265, 1HBL3

**Manufacturer Model
Number(s):**

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CRC (R*)

SAFETY DATA SHEET

1. IDENTIFICATION

PRODUCT IDENTIFIER: HEAVY DUTY DEGREASER

OTHER MEANS OF IDENTIFICATION:

PRODUCT CODE: 03095, 03095T

RECOMMENDED USE: GENERAL PURPOSE DEGREASER

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:

GASES UNDER PRESSURE: COMPRESSED GAS

HEALTH HAZARDS:

ACUTE TOXICITY, INHALATION: CATEGORY 4

SKIN CORROSION/IRRITATION: CATEGORY 2

SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 2B

CARCINOGENICITY: CATEGORY 1B

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE:

CATEGORY 3 NARCOTIC EFFECTS

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:

GAS CYLINDER
HEALTH HAZARD
EXCLAMATION MARK

SIGNAL WORD: DANGER

HAZARD STATEMENT:

CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED. CAUSES SKIN IRRITATION. CAUSES EYE IRRITATION. HARMFUL IF INHALED. MAY CAUSE DROWSINESS OR DIZZINESS. MAY CAUSE CANCER BY INHALATION OR INGESTION. 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. DO NOT PUNCTURE OR INCINERATE CONTAINER. DO NOT EXPOSE TO HEAT OR STORE AT TEMPERATURES ABOVE 49 DEG. C/120 DEG. F. USE WITH ADEQUATE VENTILATION. 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 OR VAPOR. AVOID BREATHING GAS. WASH THOROUGHLY AFTER HANDLING. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. AVOID RELEASE TO THE ENVIRONMENT.

RESPONSE:

IF ON SKIN: WASH WITH PLENTY OF WATER.

IF SKIN IRRITATION OCCURS:

GET MEDICAL 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.

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

IF EYE IRRITATION PERSISTS: GET MEDICAL ATTENTION.

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

STORAGE:

STORE IN A WELL-VENTILATED PLACE. STORE LOCKED UP. 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): NONE KNOWN.

SUPPLEMENTAL INFORMATION:

11.13% OF THE MIXTURE CONSISTS OF COMPONENT(S) OF UNKNOWN ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT. 3.4% OF THE MIXTURE CONSISTS OF COMPONENT(S) OF UNKNOWN LONG-TERM HAZARDS TO THE AQUATIC ENVIRONMENT.

WHEN EXPOSED TO EXTREME HEAT OR HOT SURFACES, VAPORS MAY DECOMPOSE TO HARMFUL OR FATAL CORROSIVE GASES SUCH AS HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND POSSIBLY PHOSGENE.

3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES:

CHEMICAL NAME COMMON NAME AND SYNONYMS CAS NUMBER %

TETRACHLOROETHYLENE PERCHLOROETHYLENE 127-18-4 80 - 90

COZOL(R*) 210 PROPRIETARY 5 - 10

CARBON DIOXIDE 124-38-9 1 - 3

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. OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

SKIN CONTACT: RINSE SKIN WITH WATER/SHOWER.

IF SKIN IRRITATION OCCURS:

GET MEDICAL ADVICE/ATTENTION. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

INGESTION:

IF INGESTION OF A LARGE AMOUNT DOES OCCUR, CALL A POISON CONTROL CENTER IMMEDIATELY. RINSE MOUTH. DO NOT INDUCE VOMITING.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

IRRITATION OF EYES AND MUCOUS MEMBRANES. IRRITATION OF NOSE AND THROAT. EXPOSED INDIVIDUALS MAY EXPERIENCE EYE TEARING, REDNESS, AND DISCOMFORT. SYMPTOMS OF OVEREXPOSURE MAY BE HEADACHE, DIZZINESS, TIREDNESS, NAUSEA AND VOMITING. MAY CAUSE REDNESS AND PAIN.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. KEEP VICTIM
WARM. 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.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

WATER SPRAY. FOAM. DRY CHEMICAL POWDER. CARBON DIOXIDE (CO₂).

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. WHEN EXPOSED TO EXTREME HEAT OR HOT SURFACES,
VAPORS MAY DECOMPOSE TO HARMFUL OR FATAL CORROSIVE GASES SUCH AS HYDROGEN
FLUORIDE, HYDROGEN CHLORIDE AND POSSIBLY PHOSGENE.

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.

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. WEAR APPROPRIATE PROTECTIVE EQUIPMENT
AND CLOTHING DURING CLEAN-UP. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED
MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. AVOID
INHALATION OF VAPORS AND SPRAY MISTS. AVOID BREATHING GAS. ENSURE ADEQUATE
VENTILATION. 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. COLLECT SPILLAGE. 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. CONTACT LOCAL AUTHORITIES IN CASE OF SPILLAGE TO DRAIN/AQUATIC ENVIRONMENT. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT CONTAMINATE WATER. AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND.

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.

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 INHALATION OF VAPORS AND SPRAY MISTS. AVOID BREATHING GAS. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED EXPOSURE. USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. SHOULD BE HANDLED IN CLOSED SYSTEMS, IF POSSIBLE. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES. AVOID RELEASE TO THE ENVIRONMENT. DO NOT EMPTY INTO DRAINS. FOR PRODUCT USAGE INSTRUCTIONS, PLEASE SEE THE PRODUCT LABEL.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

LEVEL 1 AEROSOL.

CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE AT TEMPERATURES ABOVE 120 DEG. F/49 DEG. C AS CAN MAY BURST. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. 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

CARBON DIOXIDE PEL 9000 MG/M3
(CAS 124-38-9) 5000 PPM

TRANS-1,2-DICHLOROETHYLENE PEL 790 MG/M3
(CAS 156-60-5) 200 PPM

US. OSHA TABLE Z-2 (29 CFR 1910.1000):

COMPONENTS TYPE VALUE

TETRACHLOROETHYLENE CEILING 200 PPM
(CAS 127-18-4) TWA 100 PPM

US. ACGIH THRESHOLD LIMIT VALUES:

COMPONENTS TYPE VALUE

CARBON DIOXIDE STEL 30000 PPM
(CAS 124-38-9) TWA 5000 PPM

TETRACHLOROETHYLENE STEL 100 PPM
(CAS 127-18-4) TWA 25 PPM

TRANS-1,2-DICHLOROETHYLENE TWA 200 PPM
(CAS 156-60-5)

US. NIOSH: POCKET GUIDE TO CHEMICAL HAZARDS

COMPONENTS TYPE VALUE

CARBON DIOXIDE STEL 54000 MG/M3
(CAS 124-38-9) 30000 PPM

TWA 9000 MG/M3
5000 PPM

TRANS-1,2-DICHLOROETHYLENE TWA 790 MG/M3
(CAS 156-60-5) 200 PPM

BIOLOGICAL LIMIT VALUES:

ACGIH BIOLOGICAL EXPOSURE INDICES:

COMPONENTS VALUE DETERMINANT SPECIMEN SAMPLING
TIME

TETRACHLOROETHYLENE 0.5 MG/L TETRACHLOROETHYLENE BLOOD *
(CAS 127-18-4)
3 PPM TETRACHLOROETHYLENE END-EXHALED *
AIR

* - FOR SAMPLING DETAILS, PLEASE SEE THE SOURCE DOCUMENT.

EXPOSURE GUIDELINES:

US - MINNESOTA HAZ SUBS SKIN DESIGNATION APPLIES

TETRACHLOROETHYLENE (CAS 127-18-4) SKIN DESIGNATION APPLIES.

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. EYE WASH FACILITIES AND EMERGENCY SHOWER MUST BE AVAILABLE WHEN HANDLING THIS PRODUCT.

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: VITON(R*). POLYVINYL ALCOHOL (PVA).

OTHER:

WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING. USE OF AN IMPERVIOUS APRON IS RECOMMENDED.

RESPIRATORY PROTECTION:

WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA). 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: SOLVENT.

ODOR THRESHOLD: NOT AVAILABLE.

PH: NOT AVAILABLE.

MELTING POINT/FREEZING POINT: -112 DEG. F (-80 DEG. C) ESTIMATED

INITIAL BOILING POINT AND BOILING RANGE:

119.7 DEG. F (48.7 DEG. C) ESTIMATED

FLASH POINT: NONE (TAG CLOSED CUP)

EVAPORATION RATE: FAST.

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:
FLAMMABILITY LIMIT - LOWER (%): 6.7% ESTIMATED
FLAMMABILITY LIMIT - UPPER (%): 18% ESTIMATED

VAPOR PRESSURE: 1443.6 HPA ESTIMATED

VAPOR DENSITY: >4 (AIR = 1)

RELATIVE DENSITY: 1.58

SOLUBILITY (WATER): SLIGHT.

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

AUTO-IGNITION TEMPERATURE: 860 DEG. F (460 DEG. C) ESTIMATED

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY (KINEMATIC): NOT AVAILABLE.

PERCENT VOLATILE: 97.6% 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. WHEN EXPOSED TO EXTREME HEAT OR HOT SURFACES, VAPORS MAY DECOMPOSE TO HARMFUL OR FATAL CORROSIVE GASES SUCH AS HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND POSSIBLY PHOSGENE.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

HYDROGEN CHLORIDE. HYDROGEN FLUORIDE. PHOSGENE. CARBON OXIDES.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INGESTION:

SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE EXTREMELY LOW. SWALLOWING LARGE AMOUNTS MAY CAUSE INJURY IF ASPIRATED INTO THE LUNGS. THIS MAY BE RAPIDLY ABSORBED THROUGH THE LUNGS AND RESULT IN INJURY TO OTHER BODY SYSTEMS.

INHALATION:

HARMFUL IF INHALED. SYMPTOMS OF OVEREXPOSURE MAY BE HEADACHE, DIZZINESS, TIREDNESS, NAUSEA AND VOMITING.

SKIN CONTACT: CAUSES SKIN IRRITATION.

EYE CONTACT: CAUSES EYE IRRITATION.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

IRRITATION OF NOSE AND THROAT. IRRITATION OF EYES AND MUCOUS MEMBRANES. MAY CAUSE REDNESS AND PAIN. EXPOSED INDIVIDUALS MAY EXPERIENCE EYE TEARING, REDNESS, AND DISCOMFORT. SYMPTOMS OF OVEREXPOSURE MAY BE HEADACHE, DIZZINESS, TIREDNESS, NAUSEA AND VOMITING.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: HARMFUL IF INHALED. NARCOTIC EFFECTS.

PRODUCT SPECIES TEST RESULTS

HEAVY DUTY DEGREASER:

ACUTE:

DERMAL:

LD50 RABBIT 3464.3928 MG/KG ESTIMATED

INHALATION:

LC50 RAT 5900.6211 MG/L, 4 HOURS ESTIMATED

4533.9824 PPM, 4 HOURS ESTIMATED

ORAL:

LD50 RAT 2518.0356 MG/KG ESTIMATED

SUBCHRONIC:

INHALATION:

LC50 RAT 51759.8359 PPM, 90 DAYS ESTIMATED

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

SKIN CORROSION/IRRITATION: CAUSES SKIN IRRITATION.

SERIOUS EYE DAMAGE/EYE IRRITATION: CAUSES EYE 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: MAY CAUSE CANCER.

IARC MONOGRAPHS. OVERALL EVALUATION OF CARCINOGENICITY:

TETRACHLOROETHYLENE (CAS 127-18-4): 2A PROBABLY CARCINOGENIC TO HUMANS.

US. NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS:

TETRACHLOROETHYLENE (CAS 127-18-4):

REASONABLY ANTICIPATED TO BE A HUMAN CARCINOGEN.

REPRODUCTIVE TOXICITY:

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

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

MAY CAUSE DROWSINESS OR DIZZINESS.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: NOT CLASSIFIED.

ASPIRATION HAZARD:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET. MAY BE AN ASPIRATION HAZARD.

CHRONIC EFFECTS:

PROLONGED INHALATION MAY BE HARMFUL. PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. ACCUMULATION IN AQUATIC ORGANISMS IS EXPECTED.

PRODUCT SPECIES TEST RESULTS

HEAVY DUTY DEGREASER:

AQUATIC:

FISH LC50 FISH 21.5469 MG/L, 96 HOURS ESTIMATED

ACUTE:

CRUSTACEA EC50 DAPHNIA 499.3621 MG/L, 48 HOURS ESTIMATED

COMPONENTS SPECIES TEST RESULTS

TETRACHLOROETHYLENE (CAS 127-18-4):

AQUATIC:

FISH LC50 RAINBOW TROUT, 4.73 - 5.27 MG/L, 96 HOURS
DONALDSON TROUT
(ONCORHYNCHUS MYKISS)

* 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):

TETRACHLOROETHYLENE: 2.88

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 OF WASTE FROM RESIDUES / UNUSED PRODUCTS:

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE. EMPTY CONTAINER CAN BE RECYCLED. CONSULT AUTHORITIES BEFORE DISPOSAL. 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:

D039: WASTE TETRACHLOROETHYLENE

F001:

WASTE TETRACHLOROETHYLENE - SPENT HALOGENATED SOLVENT USED IN DEGREASING

F002: WASTE TETRACHLOROETHYLENE - SPENT HALOGENATED SOLVENT

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

DOT:

UN NUMBER: UN1950

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

TRANSPORT HAZARD CLASS(ES):
CLASS: 2.2
SUBSIDIARY RISK: 6.1(PGIII)
LABEL(S): 2.2, 6.1

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS:
MARINE POLLUTANT: YES

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

SPECIAL PROVISIONS: NOT AVAILABLE.

PACKAGING EXCEPTIONS: 306

PACKAGING NON BULK: NONE

PACKAGING BULK: NONE

IATA:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME:
AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING
GROUP III, LIMITED QUANTITY

TRANSPORT HAZARD CLASS(ES):
CLASS: 2.2
SUBSIDIARY RISK: 6.1(PGIII)

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS: NO.

ERG CODE: 2P

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, MARINE POLLUTANT

TRANSPORT HAZARD CLASS(ES):

CLASS: 2

SUBSIDIARY RISK: 6.1

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: YES

EMS: NOT AVAILABLE.

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

GENERAL INFORMATION:

DOT REGULATED MARINE POLLUTANT. 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):

DECAFLUOROPENTANE (CAS 138495-42-8):

1.0% ONE-TIME EXPORT NOTIFICATION ONLY.

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

TETRACHLOROETHYLENE (CAS 127-18-4)

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4):

TETRACHLOROETHYLENE (CAS 127-18-4)

TRANS-1,2-DICHLOROETHYLENE (CAS 156-60-5)

CERCLA HAZARDOUS SUBSTANCES REPORTABLE QUANTITY

TETRACHLOROETHYLENE (CAS 127-18-4) 100 LBS

TRANS-1,2-DICHLOROETHYLENE (CAS 156-60-5) 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.

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST:
TETRACHLOROETHYLENE (CAS 127-18-4)

CLEAN AIR ACT (CAA) SECTION 112(R) ACCIDENTAL RELEASE PREVENTION
(40 CFR 68.130): NOT REGULATED.

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: NO

PRESSURE HAZARD: YES

REACTIVITY HAZARD: NO

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: NO

US STATE REGULATIONS:

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT:

CARBON DIOXIDE (CAS 124-38-9)

TETRACHLOROETHYLENE (CAS 127-18-4)

TRANS-1,2-DICHLOROETHYLENE (CAS 156-60-5)

US. MASSACHUSETTS RTK - SUBSTANCE LIST:

CARBON DIOXIDE (CAS 124-38-9)

TETRACHLOROETHYLENE (CAS 127-18-4)

TRANS-1,2-DICHLOROETHYLENE (CAS 156-60-5)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW:

TETRACHLOROETHYLENE (CAS 127-18-4)

CARBON DIOXIDE (CAS 124-38-9)

TRANS-1,2-DICHLOROETHYLENE (CAS 156-60-5)

US. RHODE ISLAND RTK:

TETRACHLOROETHYLENE (CAS 127-18-4)

TRANS-1,2-DICHLOROETHYLENE (CAS 156-60-5)

US. CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER.

US - CALIFORNIA PROPOSITION 65 - CRT LISTED DATE/CARCINOGENIC SUBSTANCE

TETRACHLOROETHYLENE (CAS 127-18-4) LISTED: APRIL 1, 1988

VOLATILE ORGANIC COMPOUNDS (VOC) REGULATIONS:

EPA:

VOC CONTENT (40 CFR 51.100(S)): 7.8%

CONSUMER PRODUCTS (40 CFR 59, SUBPT. C): NOT REGULATED

STATE:

CONSUMER PRODUCTS:

THIS PRODUCT IS REGULATED AS A GENERAL PURPOSE DEGREASER (AEROSOL). THIS PRODUCT IS NOT COMPLIANT TO BE SOLD FOR USE IN CALIFORNIA, CONNECTICUT, DELAWARE, THE DISTRICT OF COLUMBIA, ILLINOIS, INDIANA, MAINE, MARYLAND, MASSACHUSETTS, MICHIGAN, NEW JERSEY, NEW YORK, AND RHODE ISLAND. THIS PRODUCT IS COMPLIANT IN ALL OTHER STATES.

VOC CONTENT (CA): 9.8%

VOC CONTENT (OTC): 7.8%

INTERNATIONAL INVENTORIES:

COUNTRY(S) INVENTORY NAME ON INVENTORY
OR REGION (YES/NO)*

AUSTRALIA AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES YES
(AICS)

CANADA DOMESTIC SUBSTANCES LIST (DSL) YES

CANADA NON-DOMESTIC SUBSTANCES LIST (NDSL) NO

CHINA INVENTORY OF EXISTING CHEMICAL SUBSTANCES YES
IN CHINA (IECSC)

EUROPE EUROPEAN INVENTORY OF EXISTING COMMERCIAL NO
CHEMICAL SUBSTANCES (EINECS)

EUROPE EUROPEAN LIST OF NOTIFIED CHEMICAL NO
SUBSTANCES (ELINCS)

JAPAN INVENTORY OF EXISTING AND NEW CHEMICAL YES
SUBSTANCES (ENCs)

KOREA EXISTING CHEMICALS LIST (ECL) YES

NEW ZEALAND NEW ZEALAND INVENTORY YES

PHILIPPINES PHILIPPINE INVENTORY OF CHEMICALS AND YES
CHEMICAL SUBSTANCES (PICCS)

UNITED STATES & TOXIC SUBSTANCES CONTROL ACT (TSCA) YES
PUERTO RICO INVENTORY

*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: 05-19-2014

PREPARED BY: ALLISON CHO

VERSION #: 01

FURTHER INFORMATION: CRC # 894A

HMS (R*) RATINGS:

HEALTH 2*

FLAMMABILITY 1

PHYSICAL HAZARD 0

PERSONAL PROTECTION B

NFPA RATINGS:

HEALTH 2

FLAMMABILITY 1

INSTABILITY 0

DISCLAIMER:

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MATERIAL NAME: HEAVY DUTY DEGREASER

1750

SDS US