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SDS

Common Name: BRAKLEEN BRAKE PARTS CLEANER - 19 OZ NO. 05089 (ITEM 1003708)

Manufacturer: CRC INDUSTRIES

SDS Revision Date: 4/3/2019

SDS Format: GHS-US

Item Number(s): 5YK77

Manufacturer Model Number(s):

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CRC (R*)

SAFETY DATA SHEET

1. IDENTIFICATION



PRODUCT IDENTIFIER: BRAKLEEN (R*) BRAKE PARTS CLEANER - 19 OZ

OTHER MEANS OF IDENTIFICATION:

PRODUCT CODE: NO. 05089 (ITEM# 1003708)

RECOMMENDED USE: BRAKE PARTS 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:
GASES UNDER PRESSURE: COMPRESSED GAS

HEALTH HAZARDS:

SKIN CORROSION/IRRITATION: CATEGORY 2

SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 2B

SENSITIZATION, SKIN: CATEGORY 1B

CARCINOGENICITY: CATEGORY 1B

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

ENVIRONMENTAL HAZARDS:
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. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. MAY CAUSE CANCER. 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. WASH THOROUGHLY AFTER HANDLING. CONTAMINATED WORK CLOTHING MUST NOT BE ALLOWED OUT OF THE WORKPLACE. AVOID RELEASE TO THE ENVIRONMENT. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

RESPONSE:
IF ON SKIN: WASH WITH PLENTY OF WATER.

IF SKIN IRRITATION OR RASH 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.

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 ADVICE/ATTENTION.

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

STORAGE:

STORE LOCKED UP. PROTECT FROM SUNLIGHT. STORE IN A WELL-VENTILATED PLACE. 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:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS



MIXTURES:

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	%
TETRACHLOROETHYLENE	PERCHLOROETHYLENE	127-18-4	90 - 100
CARBON DIOXIDE		124-38-9	1 - 5

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 IMMEDIATELY AND WASH SKIN WITH SOAP AND WATER.

IN CASE OF ECZEMA OR OTHER SKIN DISORDERS:

SEEK MEDICAL ATTENTION AND TAKE ALONG THESE INSTRUCTIONS.

IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.

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.

IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.

INGESTION:

IN THE UNLIKELY EVENT OF SWALLOWING CONTACT A PHYSICIAN OR POISON CONTROL CENTER. RINSE MOUTH. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. IRRITATION OF EYES AND MUCOUS MEMBRANES. EXPOSED INDIVIDUALS MAY EXPERIENCE EYE TEARING, REDNESS, AND DISCOMFORT. IRRITATION OF NOSE AND THROAT. SKIN IRRITATION. MAY CAUSE REDNESS AND PAIN. MAY CAUSE AN ALLERGIC SKIN REACTION. DERMATITIS. RASH.

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. WASH CONTAMINATED CLOTHING BEFORE REUSE.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

WATER FOG. FOAM. DRY CHEMICAL POWDER. DRY CHEMICAL, CO2, OR WATER SPRAY.

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. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED. WHEN EXPOSED TO EXTREME HEAT OR HOT SURFACES, VAPORS MAY DECOMPOSE TO HARMFUL OR FATAL CORROSIVE GASES SUCH AS 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.

GENERAL FIRE HAZARDS:

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. 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 OR 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. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED.

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. COLLECT SPILLAGE. 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. PUT MATERIAL IN SUITABLE, COVERED, LABELED CONTAINERS. 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. 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. 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. 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 BREATHING MIST OR VAPOR. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED EXPOSURE. SHOULD BE HANDLED IN CLOSED SYSTEMS, IF POSSIBLE. USE ONLY IN WELL-VENTILATED AREAS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. AVOID RELEASE TO THE ENVIRONMENT. DO NOT EMPTY INTO DRAINS. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES. FOR PRODUCT USAGE INSTRUCTIONS, SEE THE PRODUCT LABEL.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

LEVEL 1 AEROSOL.

CONTENTS UNDER PRESSURE. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. DO NOT PUNCTURE OR INCINERATE CONTAINER. DO NOT EXPOSE TO HEAT OR STORE AT TEMPERATURES ABOVE 49 DEG. C/120 DEG. F. PROTECT FROM SUNLIGHT. STORE IN A WELL-VENTILATED PLACE. STORE IN COOL PLACE. EXPOSURE TO HIGH TEMPERATURE MAY CAUSE CAN TO BURST. 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
CARBON DIOXIDE (CAS 124-38-9)	PEL	9000 MG/M3
		5000 PPM

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

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

US. ACGIH THRESHOLD LIMIT VALUES:

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

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

US. NIOSH:

POCKET GUIDE TO CHEMICAL HAZARDS:

COMPONENTS	TYPE	VALUE
CARBON DIOXIDE (CAS 124-38-9)	STEL	54000 MG/M3 30000 PPM
	TWA	9000 MG/M3 5000 PPM

BIOLOGICAL LIMIT VALUES:

ACGIH BIOLOGICAL EXPOSURE INDICES:

COMPONENTS	VALUE	DETERMINANT	SPECIMEN	SAMPLING TIME
TETRACHLOROETHYLENE (CAS 127-18-4)	0.5 MG/L	TETRACHLORO- ETHYLENE	BLOOD	*
	3 PPM	TETRACHLORO- ETHYLENE	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 SHOULD BE AVAILABLE WHEN HANDLING THIS PRODUCT. PROVIDE EYEWASH STATION.

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:

NITRILE. VITON/BUTYL. POLYVINYL ALCOHOL (PVA). SILVER SHIELD(R*).

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:

OBSERVE ANY MEDICAL SURVEILLANCE REQUIREMENTS. 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. CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE.

9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE:

PHYSICAL STATE: LIQUID.

FORM: AEROSOL.

COLOR: COLORLESS.

ODOR: IRRITATING.

ODOR THRESHOLD: 50 PPM

PH: NOT AVAILABLE.

MELTING POINT/FREEZING POINT: -8.1 DEG. F (-22.3 DEG. C) ESTIMATED

INITIAL BOILING POINT AND BOILING RANGE:
250.3 DEG. F (121.3 DEG. C) ESTIMATED

FLASH POINT: NONE

EVAPORATION RATE: VERY FAST.

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:
FLAMMABILITY LIMIT - LOWER (%): NOT AVAILABLE.
FLAMMABILITY LIMIT - UPPER (%): NOT AVAILABLE.

VAPOR PRESSURE: 1264.5 HPA ESTIMATED

VAPOR DENSITY: 5.76 (AIR = 1)

RELATIVE DENSITY: 1.62

SOLUBILITY (IES):
SOLUBILITY (WATER): 0.02% (77 DEG. F (25 DEG. C))

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

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE.

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY: NOT AVAILABLE.

PERCENT VOLATILE: 97.8% ESTIMATED

OTHER INFORMATION:
PARTITION COEFFICIENT (OIL/WATER): 2.88

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 CHLORIDE AND POSSIBLY PHOSGENE.

INCOMPATIBLE MATERIALS:
STRONG OXIDIZING AGENTS. STRONG ACIDS. STRONG BASES.

HAZARDOUS DECOMPOSITION PRODUCTS:
HYDROGEN CHLORIDE. TRACE AMOUNTS OF CHLORINE AND PHOSGENE. CARBON OXIDES. HALOGENATED MATERIALS. CARBONYL HALIDES.

11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

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

SKIN CONTACT:
CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION.

EYE CONTACT: CAUSES EYE IRRITATION.

INGESTION:
INGESTION OF LARGE AMOUNTS MAY PRODUCE GASTROINTESTINAL DISTURBANCES INCLUDING IRRITATION, NAUSEA, AND DIARRHEA.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:
MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. IRRITATION OF EYES AND MUCOUS MEMBRANES. EXPOSED INDIVIDUALS MAY EXPERIENCE EYE TEARING, REDNESS, AND DISCOMFORT. IRRITATION OF NOSE AND THROAT. SKIN IRRITATION. MAY CAUSE REDNESS AND PAIN. MAY CAUSE AN ALLERGIC SKIN REACTION. DERMATITIS. RASH.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: NONE KNOWN.

COMPONENTS	SPECIES	TEST RESULTS
CARBON DIOXIDE (CAS 124-38-9)		
ACUTE		
INHALATION		
GAS		
LC50	RAT	470000 PPM, 30 MINUTES

* 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 OR SKIN SENSITIZATION:

RESPIRATORY SENSITIZATION: NOT A RESPIRATORY SENSITIZER.

SKIN SENSITIZATION: MAY CAUSE AN ALLERGIC SKIN REACTION.

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.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1052):

NOT REGULATED.

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

TETRACHLOROETHYLENE REASONABLY ANTICIPATED TO BE A HUMAN CARCINOGEN.
(CAS 127-18-4)

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: NOT 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.

COMPONENTS	SPECIES	TEST RESULTS
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TETRACHLOROETHYLENE (CAS 127-18-4)		
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AQUATIC:

CRUSTACEA	EC50	WATER FLEA (DAPHNIA MAGNA)	6.1 - 9 MG/L, 48 HOURS
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FISH	LC50	RAINBOW TROUT, DONALDSON TROUT (ONCORHYNCHUS MYKISS)	4.82 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:

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

TETRACHLOROETHYLENE	3.4
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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:

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE. 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 HALOGENATED SOLVENT - SPENT HALOGENATED SOLVENT USED IN DEGREASING

F002: WASTE HALOGENATED SOLVENT - SPENT HALOGENATED SOLVENT

US RCRA HAZARDOUS WASTE U LIST:

REFERENCE:

TETRACHLOROETHYLENE (CAS 127-18-4) U210

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, POISON, LIMITED QUANTITY

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.2

SUBSIDIARY RISK: 6.1(PGIII)

LABEL(S): 2.2, 6.1

PACKING GROUP: NOT APPLICABLE.

SPECIAL PRECAUTIONS FOR USER: FORBIDDEN FROM TRANSPORTATION BY AIR.

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

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.2

SUBSIDIARY RISK: 6.1(PGIII)

PACKING GROUP: NOT APPLICABLE.

ERG CODE: 2P

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

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

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: YES, BUT EXEMPT FROM THE REGULATIONS.

EMS: NOT AVAILABLE.

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

DOT: LIMITED QUANTITY FOR PACKAGES NOT PREPARED FOR AIR TRANSPORT

IATA; IMDG:
CLASS 2.2, NON-FLAMMABLE AND NON-TOXIC GASES
CLASS 6.1, TOXIC

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.

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)

CERCLA HAZARDOUS SUBSTANCES:

REPORTABLE QUANTITY:

TETRACHLOROETHYLENE (CAS 127-18-4) 100 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 (EAPS) 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):

CLASSIFIED HAZARD CATEGORIES:
GAS UNDER PRESSURE
SKIN CORROSION OR IRRITATION
SERIOUS EYE DAMAGE OR EYE IRRITATION
RESPIRATORY OR SKIN SENSITIZATION
CARCINOGENICITY
SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED EXPOSURE)

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: NOT LISTED.

SARA 311/312 HAZARDOUS CHEMICAL: YES

SARA 313 (TRI REPORTING):

CHEMICAL NAME	CAS NUMBER	% BY WT.
TETRACHLOROETHYLENE	127-18-4	90 - 100

US STATE REGULATIONS:

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT:
CARBON DIOXIDE (CAS 124-38-9)
TETRACHLOROETHYLENE (CAS 127-18-4)

US. MASSACHUSETTS RTK - SUBSTANCE LIST:
CARBON DIOXIDE (CAS 124-38-9)
TETRACHLOROETHYLENE (CAS 127-18-4)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW:
CARBON DIOXIDE (CAS 124-38-9)
TETRACHLOROETHYLENE (CAS 127-18-4)

US. RHODE ISLAND RTK:
CARBON DIOXIDE (CAS 124-38-9)
TETRACHLOROETHYLENE (CAS 127-18-4)

CALIFORNIA PROPOSITION 65:

WARNING: CANCER - WWW.P65WARNINGS.CA.GOV

CALIFORNIA PROPOSITION 65 - CRT:

LISTED DATE/CARCINOGENIC SUBSTANCE:

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

US. CALIFORNIA. CANDIDATE CHEMICALS LIST. SAFER CONSUMER PRODUCTS
REGULATIONS (CAL. CODE REGS, TIT. 22, 69502.3, SUBD. (A)):
TETRACHLOROETHYLENE (CAS 127-18-4)

VOLATILE ORGANIC COMPOUNDS (VOC) REGULATIONS:

EPA:
VOC CONTENT (40 CFR 51.100(S)): 0 %
CONSUMER PRODUCTS (40 CFR 59, SUBPT. C): NOT REGULATED

STATE:

CONSUMER PRODUCTS:
THIS PRODUCT IS REGULATED AS A BRAKE CLEANER. THIS PRODUCT IS NOT

COMPLIANT TO BE SOLD FOR USE IN CALIFORNIA AND NEW JERSEY. THIS PRODUCT IS COMPLIANT IN ALL OTHER STATES.

VOC CONTENT (CA): 0 %

VOC CONTENT (OTC): 0 %

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)	YES
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: 03-12-2019

REVISION DATE: 04-03-2019

PREPARED BY: ALLISON YOON

VERSION #: 02

FURTHER INFORMATION: CRC # 491G/1002481

DISCLAIMER:

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'S 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 CLARIFICATION OF ANY INFORMATION CONTAINED ON THIS (M)SDS CONSULT YOUR SUPERVISOR, A HEALTH & SAFETY PROFESSIONAL, OR CRC INDUSTRIES, INC..

REVISION INFORMATION:

COMPOSITION / INFORMATION ON INGREDIENTS: COMPONENT SUMMARY

PHYSICAL & CHEMICAL PROPERTIES: MULTIPLE PROPERTIES

ECOLOGICAL INFORMATION: ECOTOXICITY

TRANSPORT INFORMATION: MATERIAL TRANSPORTATION INFORMATION

GHS: CLASSIFICATION

MATERIAL NAME: BRAKLEEN(R*) BRAKE PARTS CLEANER - 19 OZ

SDS US