

Circuit Wash (Rev. 9/15/23)

SDS Number: A280K

Revision Date: 9/15/2023

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Wechem, Inc
5734 Susitna Dr
Harahan, LA 70123

Contact: Ligia M. Hernandez
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Product Identifier: Circuit Wash (Rev. 9/15/23)
SDS Number: A280K
Product Code: A280
Revision Date: 9/15/2023
Product Use: Electronic Contact Cleaner

Emergency Telephone Number:
INFOTRAC
1-800-535-5053

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HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 4 Inhalation
Physical, Gases Under Pressure, Compressed Gas
Health, Acute toxicity, 4 Oral
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Skin corrosion/irritation, 2
Health, Specific target organ toxicity - Single exposure, 3
Health, Acute toxicity, 5 Oral
Health, Acute toxicity, 5 Inhalation

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H332 - Harmful if inhaled
H280 - Contains gas under pressure; may explode if heated
H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H303 - May be harmful if swallowed
H333 - May be harmful if inhaled

GHS Precautionary Statements:

P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

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- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P280b - Wear protective gloves/eye protection/face protection.
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P302 + P352 - IF ON SKIN: Wash with plenty of water.
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 - Call a POISON CENTER/doctor/...if you feel unwell.
- P330 - Rinse mouth.
- P331 - Do NOT induce vomiting.
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse.
- P410 + P403 - Protect from sunlight. Store in a well-ventilated place.
- P412 - Do not expose to temperatures exceeding 50 °C/ 122 °F.
- P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry:	Eyes, Inhalation, Skin
Target Organs:	N/A
Inhalation:	Causes respiratory tract irritation.
Skin Contact:	May cause irritation.
Eye Contact:	Causes irritation.
Ingestion:	Not a likely route of exposure under normal product handling conditions.

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COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
156-60-5	70-80%	1,2-Dichloroethylene
406-78-0	15-25%	1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethylether
124-38-9	1-5%	Carbon dioxide

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FIRST AID MEASURES

Inhalation:	Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention
Skin Contact:	Immediately wash with water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation develops.
Eye Contact:	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 or attention.
Ingestion:	Rinse mouth out with water. Do not induce vomiting unless directed by medical authority. Keep head below hips if vomiting occurs. Seek immediate medical attention. Aspiration hazard. Never give anything by mouth to an unconscious person.

ACUTE HEALTH HAZARDS: Causes skin irritation including redness, burning and drying/cracking. Causes eye irritation including redness, tearing, and pain. May cause respiratory irritation and central nervous system (CNS) depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration may cause pulmonary edema and pneumonitis.

CHRONIC HEALTH HAZARDS: May cause eye, respiratory and central nervous system (CNS) effects. Dermatitis may occur due to long-term irritation.

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NOTE TO PHYSICIAN: There is no specific treatment regimen. Treatment of overexposure should be directed toward the control of symptoms and the clinical condition of the patient. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

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FIRE FIGHTING MEASURES

Flammability: Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200).
Flash Point: Not Determined
Autoignition Temp: Not determined
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide or water spray.

UNSUITABLE EXTINGUISHING MEDIA: Water jets or streams.

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 122 °F (50 °C) may cause bursting. Keep away from heat, sparks, open flames and other sources of ignition. Vapors may form explosive mixtures with air. Vapors are heavier than air and can accumulate in low areas. Vapors may travel considerable distance to a source of ignition and flash back.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, hydrogen chloride, phosgene. Halogenated compounds. Smoke, toxic fumes and toxic gases.

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ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: Eliminate all sources of ignition. Wear appropriate personal protective equipment. Absorb with non-combustible material like vermiculite, sand or earth. Place waste in proper containers for waste disposal. Small releases may be wiped up with wiping material.

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Do not reuse, puncture or incinerate container. Offer for recycling or wrap container and place in trash collection.

RCRA STATUS: Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

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HANDLING AND STORAGE

Handling Precautions: Do not use or store near heat, open flames or other sources of ignition. Wear proper personal protective equipment when using this product. Avoid contact with skin, eyes and clothing. Do not inhale mist or vapor. Do not use or store with strong oxidizers. Store in cool, dry, ventilated area. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling.

Storage Requirements: Keep out of the reach of children. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health. Contents under pressure. Do not expose to heat or store at temperatures above 50 °C/122 °F 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.

INCOMPATIBILITY: Strong oxidizing agents, strong reducing agents, acids. Alkaline materials.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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Personal Protective Equipment:

engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established maintain airborne levels to an acceptable level.

Respiratory Protection: If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Protective gloves: Appropriate chemical resistant gloves.

Eye protection: Safety glasses with side shields/ goggles are recommended.

Wear appropriate chemical resistant clothing.

Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or 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.

1,2-Dichloroethylene cas#:(156-60-5) [70-80%]

Components with workplace control parameters

TWA 200 ppm USA. ACGIH Threshold Limit Values (TLV)
Central Nervous System impairment Eye irritation

Carbon dioxide cas#:(124-38-9) [1-5%]

Components with workplace control parameters

TWA 5,000 ppm USA. ACGIH Threshold Limit Values (TLV)
Asphyxia

STEL 30,000 ppm USA. ACGIH Threshold Limit Values (TLV)
Asphyxia

TWA 10,000 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
18,000 mg/m3 1910.1000
Exposures under 10,000 ppm to be cited as de minimus.

STEL 30,000 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
54,000 mg/m3 1910.1000

TWA 5,000 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
9,000 mg/m3 Limits for Air Contaminants
The value in mg/m3 is approximate.

TWA 5,000 ppm USA. NIOSH Recommended Exposure Limits
9,000 mg/m3
Normal constituent of air (about 300 ppm).

ST 30,000 ppm USA. NIOSH Recommended Exposure Limits
54,000 mg/m3
Normal constituent of air (about 300 ppm).

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Appearance:	Clear, colorless spray	Odor:	Chlorinated solvent.
Spec Grav./Density:	1.20-1.40 @ 77 F (25 C)	Solubility:	Not available
Boiling Point:	188.96 F (87.2 C) estimated	Flash Point:	Not determined
Flammability:	Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200).	VOC:	75% wt
pH:	Not available	Auto-Ignition Temp:	Not available

10	STABILITY AND REACTIVITY
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Reactivity:	None known.
Chemical Stability:	Stable and non-reactive under normal conditions of use, storage and transport.
Conditions to Avoid:	Temperatures greater than 122 °F (50 °C) and sources of ignition. Avoid incompatible materials.
Materials to Avoid:	Strong oxidizing agents, strong reducing agents, acids. Alkaline materials.
Hazardous Decomposition:	Oxides of carbon, hydrogen chloride gas and phosgene gas.
Hazardous Polymerization:	None known.

11	TOXICOLOGICAL INFORMATION
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ROUTES OF ENTRY: Eyes, Inhalation, Skin
EYES: Causes irritation, redness, tearing, pain.
INGESTION: Not a likely route of exposure under normal product handling conditions. May cause gastrointestinal irritation, nausea, diarrhea, vomiting. Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia or edema.
INHALATION: Causes respiratory tract irritation, dizziness, drowsiness.
SKIN: May cause irritation, localized defatting, dermatitis with prolonged or repeated contact.
MEDICAL CONDITION AGGRAVATED: Pre-existing disorders of the eyes, skin and central nervous system (CNS).
ACUTE HEALTH HAZARDS: Causes skin irritation including redness, burning and drying/cracking. Causes eye irritation including redness, tearing, and pain. May cause respiratory irritation and central nervous system (CNS) depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration may cause pulmonary edema and pneumonitis.
CHRONIC HEALTH HAZARDS: May cause eye, respiratory and central nervous system (CNS) effects. Dermatitis may occur due to long-term irritation.
CARCINOGENICITY: OSHA: No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** N/A

1,2-Dichloroethylene cas#:(156-60-5) [70-80%]

Information on toxicological effects

Acute toxicity:
 Oral LD50 LD50 Oral - rat - 1,235 mg/kg
 LD50 Oral - mouse - 2,122 mg/kg Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia.
 Inhalation LC50 LC50 Inhalation - rat - 24100 ppm Remarks: Behavioral:Somnolence (general depressed activity).
 Dermal LD50 LD50 Dermal - rabbit - > 5,000 mg/kg Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.
 Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit - Eye irritation

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

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carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion Harmful if swallowed. Skin Harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: prolonged or repeated exposure can cause:., narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: KV9400000

Carbon dioxide cas#:(124-38-9) [1-5%]

Information on toxicological effects

Acute toxicity:

Oral LD50 no data available

Inhalation LC50

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

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Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May cause severe frostbite. May be harmful if absorbed through skin. May cause skin

Eyes May cause eye irritation. Aggravated Acts as a simple asphyxiant by displacing air. , Medical Condition

Signs and Symptoms of Exposure: Nausea, Dizziness, Headache, Low to medium concentrations of carbon dioxide can:, affect regulation of blood circulation, affect the acidity of body fluids, respiratory difficulties, At high concentrations:, Breathing difficulties, Increased pulse rate, change in body acidity, Very high concentrations can cause:, Unconsciousness, death

Synergistic effects: no data available

Additional Information:

RTECS: FF6400000

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ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY: Not readily biodegradable.

BIOACCUMULATIVE POTENTIAL: This product is not expected to bioaccumulate.

MOBILITY IN SOIL: N/D

OTHER ADVERSE EFFECTS: None known.

1,2-Dichloroethylene cas#:(156-60-5) [70-80%]

Information on ecological effects

Toxicity:

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 220.00 mg/l - 48 h.
and other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

Carbon dioxide cas#:(124-38-9) [1-5%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

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Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

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DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Do not reuse, puncture or incinerate container. Offer for recycling or wrap container and place in trash collection.

RCRA STATUS: Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

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TRANSPORT INFORMATION

DOT

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols, non-flammable.

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Aerosols.

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

ENVIRONMENTAL HAZARDS WATER: N/A

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REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[70-80%] RQ (1000 Lbs.) 1,2-Dichloroethylene (156-60-5) CERCLA, MASS, PA, PRIPOL, TOXICRCRA, TSCA, TXHWL

[15-25%] 1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether (406-78-0) CERCLA, MASS, PA, PRIPOL, TOXICRCRA, TSCA, TXHWL

[1-5%] Carbon dioxide (124-38-9) MASS, OSHAWAC, PA, TSCA, TXAIR

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

RQ = Reportable Quantity

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CERCLA = Superfund clean up substance
MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances
PRIPOL = Clean Water Act Priority Pollutants
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TSCA = Toxic Substances Control Act
TXHWL = TX Hazardous Waste List
OSHA WAC = OSHA workplace Air Contaminants
TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

N/A = Not available N/D = Not determined

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