




Sicamu, Inc.
1066 Strong Road
Quincy, FL, 32351
850-2706283

SECTION I. IDENTIFICATION	
Name of the Manufacturer:	SICAMU Inc.
Commercial name:	Chlorinated Brake Cleaner
Address:	Manufacturer: 1066 Strong Road, Quincy, FL, 32351 Telf.: +1 (850) 270.62. 83 Fax: +1 (850) 875.45.18
Type of product:	Automotive, Car care.

SECTION II. HAZARD IDENTIFICATION	
Hazard classification:	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Gases under pressure, compressed gas Skin corrosion/irritation Category 2 Carcinogenicity Category 1B Specific target organ toxicity, single exposure Category 3 narcotic effects Hazardous to the aquatic environment, long term hazard Category 2
Label Elements:	
Hazard Statement:	Contains gas under pressure, may explode if heated. Causes skin irritation, may cause drowsiness or dizziness. May cause cancer. Toxic to aquatic life with long lasting effects. Appearance: Clear Physical state: liquid Odor: solvent Health hazard: 2 Flammability: 0 Instability: 0
Precautionary Statements (prevention):	Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke while using this product. Wear protective gear (gloves, glasses, clothing, respirator) Use in well ventilated area, preferably outdoors. Do not breathe dust/fume/vapors.



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Precautionary Statements (response):	Eyes: rinse with abundant water for fifteen minutes. Remove contact lenses if possible. Immediately call poison center or physician. Skin: remove all contaminated clothes. Rinse with water and soap. Rinse skin with abundant water. Immediately call poison center or physician. Inhaled: remove victim to fresh air and keep in a comfortable position for breathing. Contact poison center or physician if person feels unwell. Swallowed: Do not induce vomit. Immediately call poison center or physician.
Storage and disposal:	Store in cabinet, keep out of reach of children and pets. Dispose contents/container to an approved waste disposal plant. Do not expose to temperatures exceeding 50°C/122 F.
Hazards not otherwise classified (HNOC) other information	None known.

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS	% Weight
Tetrachloroethylene	127-18-4	90-100
Carbon Dioxide	124-38-9	1-5

SECTION IV. FIRST-AID MEASURES

Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact:	Rinse with water and soap. If symptoms develop obtain medical attention.
Inhalation:	Remove to fresh air. If not breathing, clear airway and start artificial respirator. If victims is having trouble breathing, give supplemental oxygen, if available get medical attention.
Ingestion:	Immediately drink large quantities of water. Get medical attention. Do not force anything to an unconscious person.
Most important symptoms and effects, both acute and delayed:	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Irritation of nose and throat. Skin irritation. May cause redness and pain.



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Indication of any immediate medical attention and special treatment if needed: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION V. FIRE-FIGHTING MEASURES

Extinguishing media:	Carbon dioxide, dry chemical, alcohol foam. Do not use spray water or water jet.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Hazard during fire-fighting:	Contents under pressure. Exposure to high temperature may cause can to burst. 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 fire fighting procedures:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. 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.

SECTION VI. 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. Avoid breathing mist or vapor. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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



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	if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
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SECTION VII. 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. 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 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 breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. 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 puncture or incinerate container. Do not expose to heat or store at temperatures above 49 °C/120 °F. Do not handle or store near an open flame, heat or other sources of ignition. Exposure to high temperature may cause can to burst. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

SECTION VIII. EXPOSURES CONTROL/PERSONAL PROTECTION

Occupational exposure limits		
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Component	Type	Value
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m ³
US. OSHA Table Z-2 (29 CFR 1910.1000)		
Component	Type	Value



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Tetrachloroethylene (CAS 127-18-4)	Ceiling TWA	200 ppm 100 ppm
US. ACGIH Threshold Limit Values		
Component	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL TWA	3000 ppm 5000 ppm
Tetrachloroethylene (CAS 127-18-4)	STEL TWA	100 ppm 25 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
Component	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL TWA	54000 mg/m ³ 30000 ppm 9000 mg/m ³ 5000 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling time
Tetrachloroethylene (CAS 127-18-4)	0.5 mg/l 3 ppm	Tetrachloroethylene Tetrachloroethylene	Blood End-exhaled air	See document source

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.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	Wear protective gloves and 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 hazard	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.



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SECTION IX. 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 °F (-22.3 °C) estimated
Initial boiling point and boiling range 250.3 °F (121.3 °C) estimated
Flash point None (Tag Closed Cup)
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 1352.4 hPa estimated
Vapor density 5.76 (air = 1)
Relative density 1.67
Solubility (water) 0.02 % (77 °F (25 °C))
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity (kinematic) Not available.
Percent volatile 97.7 % estimated
Other information
Partition coefficient (oil/water) 2.88

SECTION X. STABILITY AND REACTIVITY

Reactivity:	Stable.
Chemical stability:	Stable.
Posibility of hazardous reactions:	None known under normal use.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases.



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Hazardous decomposition:	Hydrogen chloride. Trace amount of chlorine and phosgene. Carbon oxides. Halogenated materials. Carbonyl halides.
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SECTION XI. 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.	
Eye contact	Direct contact with eyes may cause temporary 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 nose and throat. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain.	
Acute toxicity	Narcotic effects	
Tetrachloroethylene	Species	Test Results
Acute, dermal LD50	Rabbit	3305 mg/kg estimated
Inhalation LC50	Rat	20 mg/l, 4 hours estimated
Oral LD50	Rat	2692 mg/kg estimated
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/irritation	Direct contact with eyes will cause temporary irritation.	
Respiratory sensitization	Not available.	
Skin sensitization	Not expected.	



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Germ cell mutagenicity	No data available.
Carcinogenicity	Tetrachloroethylene (CAS 127-18-4) is reasonably expected to cause cancer. Cataloged as 2A probably carcinogenic to humans.
Reproductive toxicity	Not expected.
Specific target organ toxicity-single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity-repeated exposure	Not classified.
Aspiration hazard	May be an aspiration hazard.

SECTION XII. ENVIRONMENTAL INFORMATION		
Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.		
Tetrachloroethylene	Species	Test Results
Fish LC 50	Fish	19.1805 mg/l, 96 hours
Fish LC 50	Rainbow trout, Donaldson trout	4.73-5.27 mg/l, 96 hours
Persistence and degradability	Not available	
Bio accumulative potential	Not available	
Partition coefficient n-octanol/water (low Kow) Tetrachloroethylene	2.88	
Mobility in soil	Not available	



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Other adverse effects	No other adverse environmental effects are expected from this product.
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SECTION XIII. DISPOSAL INFORMATION

Disposal:

Material used to contain large spills should be disposed in accordance with local laws and regulations. Do not dispose into environment, in drains or in water courses.
Disposal should be in accordance with applicable regional, national regulations.
Do not reuse container.

SECTION XIV. TRANSPORT INFORMATION

DOT

UN number UN1950

UN proper shipping name Aerosols, poison, Packing Group III, 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 Read safety instructions, SDS and emergency procedures before handling.

Packaging exceptions 306

Packaging non bulk None

Packaging bulk None

IATA

UN number UN1950

UN proper shipping 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

Packing group Not applicable

Environmental hazard No



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ERG code 2P
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo Allowed with restrictions
Cargo aircraft only Allowed with restrictions

IMDG
UN number UN1950
UN proper shipping AEROSOLS
Transport hazard class(es)
Class 2
Subsidiary risk 6.1
Packing group Not applicable
Environmental hazard No
EmS Not available.
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

SECTION XV. 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.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
SARA 304 Emergency release notification
Not regulated.
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
Tetrachloroethylene (CAS 127-18-4) LISTED
CERCLA Hazardous Substance List (40 CFR 302.4)
Tetrachloroethylene (CAS 127-18-4) Listed.
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.
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Tetrachloroethylene (CAS 127-18-4)



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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA) Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Immediate hazard – yes

Hazard categories Delayed hazard – yes

Fire hazard – no

Pressure hazard- yes

Reactivity hazard – no

Sara 302 Extremely no

Hazardous substances

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Tetrachloroethylene (CAS 127-18-4)

US. New Jersey Worker and Community Right-to-Know Act

Carbon dioxide (CAS 124-38-9)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Carbon dioxide (CAS 124-38-9)

Tetrachloroethylene (CAS 127-18-4)

US. New Jersey Worker and Community Right-to-Know Act

Tetrachloroethylene (CAS 127-18-4)

US. Pennsylvania Worker and Community Right-to-Know Law

Tetrachloroethylene (CAS 127-18-4)

US. Rhode Island RTK

Tetrachloroethylene (CAS 127-18-4)

US. Pennsylvania Worker and Community Right-to-Know Law

Carbon dioxide (CAS 124-38-9)

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



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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
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)

SECTION XVI. OTHER INFORMATION

Distributed by: Authorized dealers.

Written by: Antonio Pons, Technical Director, VP of Operations

Date: January 02, 2017

Guarantee waiver:

This information is accurate and reliable to the best knowledge of Sicamu Inc. No representation, warranty or guarantees are made to its accuracy, reliability or completeness. All users are encouraged to review this SDS in the context of how to use and handle this product. Users are responsible for any interpretation and/or use of this information and of this product. If clarification or further information is required, the user is responsible for contacting Sicamu Inc. to receive any additional information that he may require. Our responsibility for products sold is subject to our standard terms and conditions. A copy of which is available on request.



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