7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and

clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Keep container closed. Refer to Section 8.

Storage: Keep from freezing. Keep container tightly closed and in a cool, well-ventilated

place away from incompatible materials.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Phosphoric acid	3 mg/m3 STEL 1 mg/m3 TWA	1 mg/m3 PEL	None	None
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m3) PEL	None	None
Xanthan gum	None	None	None	None
Sulfuric acid	0.2 mg/m3 TWA Thoracic fraction.	1 mg/m3 PEL	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Diiron trioxide	5 mg/m3 TWA Respirable fraction.	10 mg/m3 PEL Fume.	None	None
Magnesium oxide	10 mg/m3 TWA Inhalable fraction.	15 mg/m3 PEL Total particulate.	None	None
Aluminium oxide	1 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Alcohols, C11-14-iso-, C13 rich, EO~	None	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Use a NIOSH approved air-purifying respirator if the potential to exceed Respiratory protection:

established exposure limits exists.

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Gel Color: Pink Odor: Lime

Odor threshold: Not available. pH: 1.5 - 2.5Vapor pressure: Not available.

Boiling point/range: 212 °F (100°C) None Approximately

Melting point/ range: Not applicable

Specific gravity: 1.191 Vapor density: Not available. Flash point: Not determinable.

IDH number: 1381191 Product name: Loctite® Naval Jelly® Rust Dissolver Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature:

Evaporation rate: Solubility in water:

Partition coefficient (n-octanol/water):

VOC content: Viscosity:

Decomposition temperature:

Not applicable Not applicable

Not applicable Not available. Soluble

Not available.

2.4 %; 28.6 g/l (calculated)

Not available. Not available.

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of storage and use.

Hazardous reactions:

Will not occur.

Hazardous decomposition

products:

Hydrogen, by reaction with metals.

Incompatible materials: Reactivity:

IDH number: 1381191

Caustics. Powdered metals.

Not available.

Conditions to avoid:

Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:

Skin contact: Eye contact:

Causes respiratory tract irritation. Respiratory tract burns.
Causes skin irritation. Causes skin burns. May cause allergic skin reaction.
Causes serious eye damage. Causes eye irritation. May cause eye burns.
Harmful if swallowed.

Ingestion:

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Phosphoric acid	Oral LD50 (RAT) = 1,530 mg/kg Dermal LD50 (RABBIT) = 2,740 mg/kg	Irritant, Corrosive
2-Propanol	Oral LD50 (RAT) = 5,045 mg/kg Oral LD50 (RABBIT) = 6,410 mg/kg Oral LD50 (RAT) = 4.7 g/kg Oral LD50 (RABBIT) = 8.0 g/kg Oral LD50 (RABBIT) = 5.03 g/kg Dermal LD50 (RABBIT) = 12,800 mg/kg	Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen
Xanthan gum	None	Irritant
Sulfuric acid	Inhalation LC50 (RAT, 1 h) = 347 mg/l	Carcinogen, Corrosive, Irritant, Lung
Silica, amorphous, fumed, crystal-free	None	Nuisance dust
Diiron trioxide	None	Allergen, Cardiac, Central nervous system, Irritant, Kidney, Liver, Lung
Magnesium oxide	None	Blood, Central nervous system, Immune system, Irritant
Aluminium oxide	None	Irritant, Nuisance dust, Corrosive
Alcohols, C11-14-iso-, C13 rich, EO~	None	Central nervous system, Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Phosphoric acid	No	No	No
2-Propanol	No	No	No
Xanthan gum	No	No	No
Sulfuric acid	Known To Be Human Carcinogen.	Group 1	No
Silica, amorphous, fumed, crystal-free	No	No	No
Diiron trioxide	No	No	No
Magnesium oxide	No	No	No
Aluminium oxide	No	No	No
Alcohols, C11-14-iso-, C13 rich, EO~	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Phosphoric acid solution

Hazard class or division:

Identification number:

Recommended method of disposal:

UN 1805

Packing group: DOT Hazardous Substance(s):

Phosphoric acid

International Air Transportation (ICAO/IATA)

Proper shipping name: Phosphoric acid, solution

Hazard class or division: Identification number:

Packing group:

UN 1805 111

Water Transportation (IMO/IMDG)

Proper shipping name: PHOSPHORIC ACID SOLUTION

Hazard class or division:

Identification number: UN 1805

Packing group:

III

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:

Sulfuric acid (CAS# 7664-93-9).

CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:

Immediate Health, Delayed Health None above reporting de minimis

CERCLA Reportable quantity:

Phosphoric acid (CAS# 7664-38-2) 5,000 lbs. (2,270 kg)

2-Propanol (CAS# 67-63-0) 100 lbs. (45.4 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Lou Fabrizio, Regulatory Affairs Specialist

Issue date:

IDH number: 1381191

02/17/2015

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SAFETY DATA SHEET

1. Identification

Product identifier Brakleen® Brake Parts Cleaner

Other means of identification

05089, 05089T, 85089, 85089AZ Product code

Recommended use Brake 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

215-674-4300 General Information 800-521-3168

Technical Assistance

Customer Service 800-272-4620 800-424-9300 (US) 24-Hour Emergency

(CHEMTREC) 703-527-3887 (International) Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Gases under pressure

Health hazards Skin corrosion/irritation Category 2

Carcinogenicity Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

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.

Precautionary statement

Prevention

Response

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°C/120°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.

Compressed gas

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 exposed or concerned:

Get medical 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.

Material name: Brakleen® Brake Parts Cleaner

05089, 05089T, 85089, 85089AZ Version #: 03 Revision date: 10-29-2015 Issue date: 12-20-2013

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

lixtures			
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. Rinse skin with water/shower. 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	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, 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.
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.

5. Fire-fighting measures	
Suitable extinguishing media	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. 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 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. 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

discharge into drains, water courses or onto the ground.

environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid

Material name: Brakleen® Brake Parts Cleaner

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. 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).

8. Exposure controls/personal protection

Occupational exposure limits	N. 1 2 5 .				
US. OSHA Table Z-1 Limits	for Air Contaminants	(29 CFR 1910.100	0)		
Components	Туре		Va	lue	
Carbon dioxide (CAS 124-38-9)	PEL		900	00 mg/m3	
,			500	00 ppm	
US. OSHA Table Z-2 (29 CF	R 1910.1000)				
Components	Туре		Va	lue	
Tetrachloroethylene (CAS 127-18-4)	Ceilir	ng	200) ppm	2 8 0.00
	TWA		100	O ppm	
US. ACGIH Threshold Limi	t Values				
Components	Туре		Va	lue	
Carbon dioxide (CAS 124-38-9)	STEL	-	300	000 ppm	
,	TWA		500	00 ppm	
Tetrachloroethylene (CAS 127-18-4)	STEL	-	100	0 ppm	
	TWA		25	ppm	
US. NIOSH: Pocket Guide t	o Chemical Hazards				
Components	Туре	1	Va	lue	
Carbon dioxide (CAS 124-38-9)	STEI	-	540	000 mg/m3	
12 1 00 0)			300	000 ppm	
	TWA		900	00 mg/m3	
			500	00 ppm	
Biological limit values					
ACGIH Biological Exposur	e Indices				
Components	Value	Determinant	Specimen	Sampling Time	
Tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*	

Bi

ACGIH Biological Exposu	ıre Indices				
Components	Value	Determinant	Specimen	Sampling Time	
Tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*	
	3 ppm	Tetrachloroethy lene	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.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Wear protective gloves such as: Viton®. Polyvinyl alcohol (PVA). Nitrile. Silver Shield® Hand protection

Wear appropriate chemical resistant clothing. Other

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

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.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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

Irritating

Odor threshold

50 ppm

рΗ

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

Not available.

Flammability limit - lower

Flammability limit - upper

Not available.

(%)Vapor pressure

5.76 (air = 1)

1352.4 hPa estimated

Vapor density

1.62

Relative density Solubility (water)

0.02 % (77 °F (25 °C))

Partition coefficient

Not available.

(n-octanol/water) Auto-ignition temperature

Not available.

Decomposition temperature

Not available. Not available.

Viscosity (kinematic) Percent volatile

97.7 % estimated

Other information

Partition coefficient

2.88

(oil/water)

Material name: Brakleen® Brake Parts Cleaner

05089, 05089T, 85089, 85089AZ Version #: 03 Revision date: 10-29-2015 Issue date: 12-20-2013

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

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.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, Ingestion

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.

Information on toxicological effects

Acute toxicity Narcotic effects

Product Species **Test Results**

Brakleen® Brake Parts Cleaner

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/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

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 and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be an aspiration hazard

Material name: Brakleen® Brake Parts Cleaner 05089, 05089T, 85089, 85089AZ Version #: 03 Revision date: 10-29-2015 Issue date: 12-20-2013

^{*} Estimates for product may be based on additional component data not shown.

12. Ecological information

cotoxicity	Toxic to a	quatic life with long lasting effects. Accum	ulation in aquatic organisms is expected.
Product		Species	Test Results
Brakleen® Brake Part	ts Cleaner		
Aquatic			
Fish	LC50	Fish	19.1805 mg/l, 96 hours estimated
Components		Species	Test Results
Tetrachloroethylene (CAS 127-18-4)		
Aquatic			
Fish	LC50	Rainbow trout donaldson trout	4.73 - 5.27 mg/l. 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Not available. Persistence and degradability Not available. Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Tetrachloroethylene

No data available. Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects potential, endocrine disruption, global warming potential) are expected from this component.

2.88

(Oncorhynchus mykiss)

13. Disposal considerations

This material and its container must be disposed of as hazardous waste. Consult authorities before Disposal of waste from residues / unused products

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

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

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 Transport hazard class(es) Aerosols, poison, Packing Group III, Limited Quantity

Class 2.2 6.1(PGIII) Subsidiary risk 2.2, 6.1 Label(s) Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Packaging exceptions Packaging non bulk None None Packaging bulk

IATA

UN1950 **UN** number

Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III, Limited UN proper shipping name

Quantity

Transport hazard class(es)

Class 2.2 Subsidiary risk 6.1

Not applicable. Packing group

Material name: Brakleen® Brake Parts Cleaner

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 with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number

UN1950

UN proper shipping name

AEROSOLS

Transport hazard class(es)

Class

2

Subsidiary risk

6.1

Packaing group

Not applicable.

Environmental hazards

Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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.

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)

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 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. 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)

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

VOC content (40 CFR

51.100(s))

Consumer products

Not regulated

(40 CFR 59, Subpt. C)

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.

0 % VOC content (CA) 0 % VOC content (OTC)

International Inventories

Country(s) or region	Inventory name	On inventory (y	/es/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).

16. Other information, including date of preparation or last revision

Issue date 12-20-2013 10-29-2015 Revision date Allison Cho Prepared by Version# 03

CRC # 491G Further information

Material name: Brakleen® Brake Parts Cleaner 05089, 05089T, 85089, 85089AZ Version #: 03 Revision date: 10-29-2015 Issue date: 12-20-2013



HMIS® ratings

Health: 2* Flammability: 0 Physical hazard: 0 Personal protection: B

NFPA ratings

Health: 2 Flammability: 0 Instability: 0

NFPA ratings



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 Industries' 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.



CRC.

SAFETY DATA SHEET

1. Identification

Product identifier QD® Electronic Cleaner

Other means of identification

Product code 05101, 05103, 05703

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

800-521-3168

Assistance

_

Customer Service

800-272-4620 800-424-9300 (US)

24-Hour Emergency

703-527-3887 (International)

(CHEMTREC)
Website

www.crcindustries.com

2. Hazard(s) identification

Physical hazards Flammable aerosols

Category 1

Gases under pressure

Health hazards Skin corrosion/irritation

Liquefied gas Category 2

Specific target organ toxicity, single exposure

Category 3 narcotic effects

Aspiration hazard

Category 1

Environmental hazards Hazardous to the a

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards

Not classified.

Label elements



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. Harmful 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. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. 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 or 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 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.

Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°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

96.1% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Common name and synonyms	CAS number	%
lactor.	64742-49-0	70 - 80
HFC-152a	75-37-6	20 - 30
	110-54-3	3 - 5
	75-83-2	< 0.2
	107-83-5	< 0.2
	L-Y-	64742-49-0 HFC-152a 75-37-6 110-54-3 75-83-2

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. Rinse skin with water/shower. 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

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. 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.

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when

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.

Material name: QD® Electronic Cleaner

General fire hazards

05101, 05103, 05703 Version #: 01 Issue date: 05-07-2015

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. Remove all possible sources of ignition in the surrounding area. Many vapors 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. 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. Stop the flow of material, if this is without risk. Prevent product from entering drains. 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. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. 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 breathing mist or vapor. 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. Observe good industrial hygiene practices. Avoid release to the environment. For product usage instructions, please 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°C/122°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 a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Components	Туре	Value		
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3		
		500 ppm		
US. ACGIH Threshold Limit Values	green over the plant of the contract of			
Components	Туре	Value		
2,2-Dimethylbutane (CAS 75-83-2)	STEL	1000 ppm		
^	TWA	500 ppm		
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm		
	TWA	500 ppm		
n-Hexane (CAS 110-54-3)	TWA	50 ppm		
US. NIOSH: Pocket Guide to Chem	ical Hazards			
Components	Туре	Value		
2,2-Dimethylbutane (CAS 75-83-2)	Ceiling	1800 mg/m3	E ,	
-		510 ppm		

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value		
Osci vist tuber ti rujiwi. 1800, gi oli esi 198	TWA	350 mg/m3	BEET BETTER	1.10
		100 ppm		
2-Methylpentane (CAS 107-83-5)	Ceiling	1800 mg/m3		1
		510 ppm		
	TWA	350 mg/m3		
		100 ppm		
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3		
		50 ppm		
US. AIHA Workplace Environmen	tal Exposure Level (WEEL) Gu	iides		
Components	Туре	Value		
1,1-Difluoroethane (CAS 75-37-6)	TWA	2700 mg/m3		
		1000 ppm		

Biological limit values

ACGIH Biological Exposu Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hvdrolysis	Urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

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

Skin protection

Other

Eye/face protection

Wear appropriate chemical resistant clothing.

Wear safety glasses with side shields (or goggles).

Respiratory protection

Hand 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.

Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton®.

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

А	p	p	e	aı	ra	n	C	e

Liquid. Physical state Aerosol. Form Color Colorless. Alcoholic. Odor Odor threshold Not available. Not available. рΗ

Not available.

Material name: QD® Electronic Cleaner

Melting point/freezing point

Initial boiling point and boiling

range

123 °F (50.6 °C) estimated

Flash point

< 0 °F (< -17.8 °C) Tag Closed Cup

Evaporation rate

Very fast. Not available.

Flammability (solid, gas)

Flammability limit - lower

Upper/lower flammability or explosive limits

(%)

Flammability limit - upper

1.1 % estimated

(%)

19 % estimated

Vapor pressure

175 mmHg (68 °F (20 °C))

489.2 °F (254 °C) estimated

Vapor density

> 1 (air = 1)

Relative density

0.72 estimated

Solubility (water)

Negligible.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Decomposition temperature

Not available.

Viscosity (kinematic)

Not available.

Percent volatile

100 % 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 Incompatible materials Heat, flames and sparks. Contact with incompatible materials.

Hazardous decomposition

products

Carbon oxides.

Strong oxidizing agents.

11. Toxicological information

Information on likely routes of exposure

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be Inhalation

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 Headache. May cause drowsiness and dizziness. Nausea, vomiting. Aspiration may cause

pulmonary edema and pneumonitis. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

Product Species **Test Results**

QD® Electronic Cleaner

Acute Dermal

LD50

Rabbit

2696 mg/kg estimated

Inhalation

LC50

Rat

26392 ppm, 4 hours estimated

27 mg/l, 4 hours estimated

Product Species Test Results

Oral

LD50 Rat 19828 mg/kg estimated

* Estimates for product may be based on additional component data not shown.

Causes skin irritation.

Skin corrosion/irritation

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

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

Risk of cancer cannot be excluded with prolonged exposure.

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. If aspirated into lungs during swallowing or vomiting,

Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

may cause chemical pneumonia, pulmonary injury or death.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

otoxicity	Harmful to	o aquatic life with long last	ting effects.	
Product		Species		Test Results
QD® Electronic Cleane	er			
Aquatic				
Fish	LC50	Fish		1553.8115 mg/l, 96 hours estimated
Acute				
Crustacea	EC50	Daphnia		1754.8054 mg/l, 48 hours estimated
Components		Species		Test Results
n-Hexane (CAS 110-54	1-3)			
Aquatic				

^{*} Estimates for product may be based on additional component data not shown.

Diagonumulative notantial

Bioaccumulative potential

Persistence and degradability

Fish

No data is available on the degradability of this product.

Partition coefficient n-octanol / water (log Kow)

1,1-Difluoroethane	0.75
2,2-Dimethylbutane	3.82
2-Methylpentane	3.74
n-Hexane	3.9

LC50

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 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. Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

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

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN1950 **UN** number

UN proper shipping name Aerosols, flammable, Limited Quantity, MARINE POLLUTANT (Hexanes)

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Marine pollutant

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82 306 Packaging exceptions 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.

Environmental hazards Yes. **ERG Code** 10L

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, LIMITED QUANTITY, MARINE POLLUTANT

Transport hazard class(es) Class 2

Subsidiary risk

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.

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.

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

n-Hexane (CAS 110-54-3)

CERCLA Hazardous Substance List (40 CFR 302.4)

n-Hexane (CAS 110-54-3) Listed.

CERCLA Hazardous Substances: Reportable quantity

n-Hexane (CAS 110-54-3) 5000 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.

Material name: QD® Electronic Cleaner 05101, 05103, 05703 Version #: 01 Issue date: 05-07-2015

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3)

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

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312

Immediate Hazard - Yes Delayed Hazard - No

Hazard categories

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

US state regulations

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

(a))

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-Hexane (CAS 110-54-3)

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

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

1.1-Difluoroethane (CAS 75-37-6)

n-Hexane (CAS 110-54-3)

Ethanol (CAS 64-17-5)

US. Massachusetts RTK - Substance List

1,1-Difluoroethane (CAS 75-37-6)

n-Hexane (CAS 110-54-3)

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

Isopropyl alcohol (CAS 67-63-0)

Methanol (CAS 67-56-1)

n-Hexane (CAS 110-54-3)

US. Rhode Island RTK

1,1-Difluoroethane (CAS 75-37-6)

n-Hexane (CAS 110-54-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Methyl isobutyl ketone (CAS 108-10-1)

Listed: November 4, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1)

Listed: March 16, 2012

Methyl isobutyl ketone (CAS 108-10-1)

Listed: March 28, 2014

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR

51.100(s))

Consumer products

Not regulated

(40 CFR 59, Subpt. C)

State

Consumer products

This product is regulated as an Electronic Cleaner. This product is compliant for use in all 50

VOC content (CA)

75 %

VOC content (OTC)

75 %

Material name: QD® Electronic Cleaner

SDS US 05101, 05103, 05703 Version #: 01 Issue date: 05-07-2015

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

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

16. Other information, including date of preparation or last revision

Issue date 05-07-2015
Prepared by Allison Cho

Version # 01

Further information CRC # 985
HMIS® ratings Health: 1
Flammability: 4

Physical hazard: 0
Personal protection: B

NFPA ratings Health: 1

Flammability: 4 Instability: 0

NFPA ratings



Disclaimer

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SAFETY DATA SHEET

MC 2495XRT

Section 1. Identification

GHS product identifier

: MC 2495XRT

Other means of

: Not available.

identification

Traveller - Premium HEAUY DUTY Grease

Product type

: Solid.

Product code

: LXR25020B0

MSDS#

: 2264

Relevant identified uses of the substance or mixture and uses advised against

Product use: For

professional use only.

: Industrial applications: Lubricants; grease

upplier's details

: Chemtool Incorporated 801 West Rockton Road Rockton, IL 61072 U.S.A.

Tel: 815.957.4140 Fax: 815.624.0292

Emergency telephone

number

: INFOTRAC

U.S. and Canada - 800.535.5053

Outside the U.S. and Canada - +1 352,323,3500

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

GHS label elements

Hazard pictograms :



Signal word

: Warning

Hazard statements

: Causes serious eye irritation.

Precautionary statements

Prevention

: Wear eye or face protection. Wash hands thoroughly after handling.

Response

: 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.

Storage

: Not applicable.

Validated on 9/15/2015.

1/12

Section 2. Hazards identification

Disposal

: Not applicable.

Hazards not otherwise

: None known.

classified

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of

: Not available.

identification

CAS number/other identifiers

Ingredient name	%	CAS number
Distillates (petroleum), solvent-dewaxed heavy paraffinic tris(2-ethylhexyl) orthoborate Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	1-5	64742-65-0 2467-13-2 68649-42-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Cau

: Causes serious eye irritation.

Inhalation
Skin contact

: No known significant effects or critical hazards.: No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Validated on 9/15/2015. 2/12