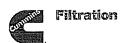
SAFETY DATA SHEET



1. Identification

Product identifier RESTORE PLUS - ACID COOLING SYSTEM CLEANER

Other means of identification

SDS number

LT16551

Product code

CC2637 (55 gallon / 208 L Drum); CC2638 (1 gallon / 3.785 L)

Recommended use

Radiator cleaner for removing heavy rust and scale, oil contaminants and fuel contaminants.

Recommended restrictions

Chemical family

No restrictions on use known.

Mixture of: Water; Surfactant; Acids; Sequesterant

Manufacturer

Company name

Cummins Filtration

Address

1200 Fleetguard Road Cookeville, TN, U.S.A.

38506

Telephone

(931) 526 9551

Website

www.cumminsfiltration.com

E-Mail

fleetmaster.us@cummins.com

Supplier information

Refer to Manufacturer

Emergency phone number

Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside

U.S.).

2. Hazard(s) Identification

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Physical hazards

This mixture does not meet the classification criteria according to OSHA Hazcom 2012.

Health hazards

Skin corrosion/irritation - Category 2

Eye damage/irritation - Category 1
Specific target organ toxicity - single exposure - Category 3 (Respiratory irritation)

Environmental hazards

Not currently regulated by OSHA, refer to Section 12 for additional information.

OSHA defined hazards

This substance does not meet the classification criteria according to OSHA Hazcom 2012.

Label elements





Signal Word

DANGER!

Hazard statement(s)

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.

Precautionary statement(s)

Prevention

Avoid breathing mist or vapor. Wash hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection.

Response

Storage

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical

advice/attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or

doctor/physician.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER
CC2637; CC2638 SDS No. LT16551 Version #: 1 Issue date: 05-27-2015

Filtration

SAFETY DATA SHEET

Disposal

Dispose of contents/container in accordance with local regulation.

Hazard(s) not otherwise Classified (HNOC)

No OSHA defined hazard classes.

Other hazards which do not result in classification:

Contact with metals may release small amounts of flammable hydrogen gas. Toxic fumes, gases or vapours may evolve on burning. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

Environmental precautions: Harmful to aquatic life with long lasting effects, Avoid release to

the environment. See ECOLOGICAL INFORMATION, Section 12.

Supplemental Information

Avoid contact with eyes, skin and clothing. Keep away from incompatibles.

3. Composition/information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	Concentration (%)	
Citric acid	2-Hydroxypropanetricarboxylic acid	77-92-9	10.0 - 25.0	
Nonylphenol, ethoxylated	Polyethylene glycol nonylphenyl ether	9016-45-9	5.0 - 10.0	
Alcohols, C6-10, ethoxylated propoxylated	Not available.	68987-81-5	1.0 - 5.0	
Alcohols, C8-10, ethoxylated propoxylated	Not available.	68603-25-8	1.0 - 5.0	
Trisodium Hydroxyethylenediaminetriacetate	Trisodium HEDTA	139-89-9	1.0 - 3.0	
Phosphoric acid	Orthophosphoric acid Hydrogen Phosphate	7664-38-2	0.1 - 0.6	

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

4. First-aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions Get medical attention.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Direct eye contact may produce severe irritation with possible eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible eye damage.

Severe respiratory irritant. Symptoms may include coughing, choking and wheezing. May cause severe irritation and corrosive damage in the mouth, throat and stomach.

Indication of any immediate medical attention and special treatment needed

Immediate medical attention is required. Causes serious eye damage. Provide general supportive measures and treat symptomatically.

General Information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER CC2637; CC2638 SDS No. LT16551 Version #: 1 Issue date: 05-27-2015



1. Product and Company Identification

Product identifier

RESTORE PLUS - ACID COOLING SYSTEM CLEANER

Other means of identification

MSDS number

LT16551

Product code

CC2637 (55 gallon / 208 L Drum); CC2638 (1 gallon / 3.785 L)

Product use

Radiator cleaner for removing heavy rust and scale, oil contaminants and fuel contaminants.

Chemical family

Mixture of: Water; Surfactants; Acids; Sequesterant

Manufacturer

Company name

Cummins Filtration

Address

1200 Fleetguard Road

Cookeville, TN, U.S.A.

38506

Telephone

(931) 526 9551

Website

www.cumminsfiltration.com

E-Mail

fleetmaster.us@cummins.com

Supplier information

Refer to Manufacturer

Emergency phone number

Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside

U.S.).

2. Hazard(s) Identification

Emergency overview

Clear amber liquid. Little or no odour.

WARNING! May be harmful if inhaled or swallowed. May cause respiratory irritation. May cause severe irritation to the mouth, throat and stomach. Possible severe eye irritation and

tissue damage. May cause skin irritation.

Potential health effects

Routes of exposure

Routes of entry skin & eye

YES

Routes of entry skin

absorption

NO

Routes of entry inhalation

YES

Routes of entry ingestion

YES

Target organs

Eyes, skin, respiratory system, digestive system.

Chronic effects

Chronic skin contact with low concentrations may cause dermatitis.

Most important

symptoms/effects, acute and

delayed

Causes skin irritation. Contact may cause redness, swelling and a painful sensation.

Direct eye contact may produce severe irritation with possible eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible

eye damage

Severe respiratory irritant. Symptoms may include coughing, choking and wheezing. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations and bleeding.

Potential environmental effects

Harmful to aquatic life with long lasting effects. Avoid release to the environment. See

ECOLOGICAL INFORMATION, Section 12.

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER

CC2637; CC2638 MSDS No. LT16551 Version #: 1 Issue date: 05-27-2015

1 / 10



3. Composition/information on ingredients

Mixture

Chemical name	CAS#	Percent
Citric acid	77-92-9	10.0 - 25.0
Nonylphenol, ethoxylated	9016-45-9	5.0 - 10.0
Alcohols, C6-10, ethoxylated propoxylated	68987-81-5	1.0 - 5.0
Alcohols, C8-10, ethoxylated propoxylated	68603-25-8	1.0 - 5.0
Trisodium Hydroxyethylenediaminetriacetate	139-89-9	1.0 - 3.0
Phosphoric acid	7664-38-2	0.1 - 0.6

4. First Aid Measures

First aid procedures

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is Inhalation

difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial

respiration. Get medical attention.

Immediately flush skin with running water for at least 15 minutes, while removing Skin contact

contaminated clothing. Get medical attention. Wash contaminated clothing before reuse.

Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical Eye contact

attention/advice.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to Ingestion

a person who is unconscious or is having convulsions Get medical attention immediately.

Notes to physician Immediate medical attention is required. Causes serious eye damage.

Provide general supportive measures and treat symptomatically.

General Information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties

Extinguishing media

Suitable extinguishing

media

Not flammable by WHMIS criteria.

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing

media

None known.

Protection of firefighters

Specific hazards arising

from the chemical

heavier than air and collect in confined and low-lying areas. The pressure in sealed containers can increase under the influence of heat.

Protective equipment for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Contact with metals may release small amounts of flammable hydrogen gas. Vapours are

Fire fighting

equipment/instructions

Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

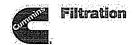
Explosion data

Sensitivity to static

discharge

Not expected to be sensitive to static discharge.

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER CC2637; CC2638 MSDS No. LT16551 Version #: 1 Issue date: 05-27-2015 2/10



Sensitivity to mechanical

impact

Not expected to be sensitive to mechanical impact.

Hazardous combustion

products

Carbon oxides; formaldehyde; Sulphur oxides; Nitrogen oxides (NOx); Other unidentified

organic compounds

General fire hazards

Not classified as flammable.

6. Accidental Release Measures

Personal precautions Keep people away from and upwind of spill/leak. Restrict access to area until completion of

clean-up. Wear appropriate protective equipment. Refer to protective measures listed in

sections 7 and 8.

Environmental precautions

Methods and materials for containment and cleaning up Prevent product from entering drains, sewers, waterways and soil.

Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product.

Contact the proper local authorities.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Storage

Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10).

8. Exposure Controls / Personal Protection

Occupational exposure limits

U.S. OSHA Exposure Limits (29 CFR 1910)

	Туре	Value
Phosphoric acid (CAS 7664-38-2)	TWA	1 mg/m³

US. ACGIH Threshold Limit Values

	Туре	Value
Phosphoric acid	STEL	3 mg/m³
(CAS 7664-38-2)	TWA	1 mg/m³

Biological limit values

No biological exposure limits noted for the ingredient(s).

Engineering controls

Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Personal protective equipment

Eye / face protection

Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.

Skin protection

Wear protective gloves. The suitability for a specific workplace should be discussed with the

producers of the protective gloves. Wear sufficient clothing to prevent skin contact.

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER MSDS No. LT16551 Version #: 1 Issue date: 05-27-2015 CC2637; CC2638 3 / 10



Respiratory protection If airbourne concentrations are above the permissible exposure limit or are not known, use

NIOSH-approved respirators. Respirators should be selected based on the form and

concentration of contaminants in air, and in accordance with CSA Z94.4-02. Advice should

be sought from respiratory protection specialists.

Ensure that eyewash stations and safety showers are close to the workstation location. Hand protection

Other equipment may be required depending on workplace standards.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form Colour Thin liquid. amber

Odour

Little or no odour.

Odour threshold

N/Av

2.5 - 3.0

Melting point /freezing point

N/Av

Initial boiling point and boiling range

104°C (220°F)

Flash point

N/Ap

N/Ap

Evaporation rate

N/Av

Not applicable. Flammability (solid, gas)

Lower flammability/explosive limitN/Ap

Upper flammability/explosive

limit

N/Ap

Vapour pressure

N/Av

Vapour density

> 1 (Air = 1)

Relative density

1.11 - 1.13

Solubility(ies)

Other solubility(ies)

N/Av

Solubility (water)

Complete

Partition coefficient

N/Av

(n-octanol/water)

N/Av

Auto-ignition temperature Decomposition temperature

N/Av

Viscosity

N/Av

Other information

Explosive properties

Not explosive

Oxidizing properties

None known. 1.11 - 1.13

Specific gravity

VOC

N/Av

Volatilities %

N/Av

Other physical/chemical data

No additional information.

10. Stability and reactivity

Reactivity

reactions

Not normally reactive. Contact with metals may release small amounts of flammable

hydrogen gas.

Chemical stability

Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous

No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER

CC2637; CC2638

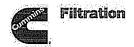
MSDS No. LT16551

Version #: 1

Issue date: 05-27-2015

MSDS CANADA

4 / 10



Conditions to avoid

Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with

incompatible materials.

Incompatible materials

Strong bases, strong oxidizing agents (e.g. Chlorides, peroxides), reducing agents (e.g.

cyanides, metal hydrides).

Hazardous decomposition

products

None known, refer to hazardous combustion products in Section 5.

11. Toxicological information

Toxicological data

Components	Species	Test Results	
Citric acid	pri krypy a struckkini ni moderini na primpi na pri nje ma pri nje krije krije krije nje krije krije krije kri		MANAGE STATES
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg (No mortality)	
inhalation			
LC50	Rat	N/Av	
Oral	m .		
LD50	Rat	3000 mg/kg	
Nonylphenol, ethoxylated			
Acute			
Dermal			
LD50	Rabbit	2080 - 2120 mg/kg	
inhalation	Б.		
LC50	Rat	N/Av	
Oral	Rat	1310 mg/kg	
LD50		1310 Highty	
Alcohols, C6-10, ethoxylate	а ргорохугатеа		
Acute			
Dermal	Dobbit		
LD50 inhalation	Rabbit	> 2000 mg/kg (No mortality)	
LC50	Rat	> 50 mg/L (aerosol)	
Oral	rvat	> 50 flig/L (aerosor)	
LD50	Rat	2380 - 2745 mg/kg	
Alcohols, C8-10, ethoxylate		2000 27 to thightig	
Acute	a proponjiatou		
Dermal			
LD50	Rabbit	> 2000 mg/kg (No mortality)	
inhalation	TODATE	2000 Highly (No Hortality)	
LC50	Rat	N/Av	
Oral		••	
LD50	Rat	> 2000 mg/kg	
Trisodium Hydroxyethylene	diaminetriacetate		
Acute			
Dermal			
LD50	Rabbit	N/Av	
inhalation			
LC50	Rat	> 10 mg/L (aerosol)	
Oral			
LD50	Rat	3200 mg/kg	

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER

CC2637; CC2638 MSDS No. LT16551 Version #: 1 Issue date: 05-27-2015 5 / 10

MSDS CANADA



Phosphoric acid

Acute

Dermal

LD50

Rabbit

> 1260 mg/kg (85%); > 3160 mg/kg (75%)

inhalation

LC50

Rat

N/Av

Oral

LD50 Rat

3500 mg/kg (85%); 4400 mg/kg (75%)

Acute effects

Causes skin irritation. Causes serious eye damage. Severe respiratory irritant. May cause

severe irritation and corrosive damage in the mouth, throat and stomach.

Senitization

Not expected to be a skin or respiratory sensitizer.

See data above for individual ingredient acute toxicity data.

Chronic effects

Chronic skin contact with low concentrations may cause dermatitis.

Carcinogenicity

Not known to be carcinogenic.

No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Skin corrosion/irritation

May cause moderate skin irritation.

Serious eye damage/irritation

Serious eye damage/iritati

Causes eye damage.

Mutagenicity

Contains no ingredient above reportable levels that is known to cause mutations in

reproductive (germ) and/or non-reproductive cells (somatic).

Reproductive effects

Not expected to cause reproductive effects.

Teratogenicity

Most important

symptoms/effects, acute and

delayed

Not expected to be a teratogen. Causes skin irritation. Contact may cause redness, swelling and a painful sensation.

Direct eye contact may produce severe irritation with possible eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible

eye damage.

Severe respiratory irritant. Symptoms may include coughing, choking and wheezing. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations and bleeding.

Further information

None known or reported by the manufacturer.

12. Ecological information

Ecotoxicity data:						
性性的性性的 (A. M.	n goding ang the track that the first first for the first and the track of the track of the first section of the f	or go diversity of the state of	Toxicity to Fish	- MATERIAL STORE PERMITMENT OF A SHARE STORE STO		
Components	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Citric acid	77-92-9	1516 mg/L (Bluegill sunfish)	N/Av	None.		
Nonylphenol, ethoxylated	9016-45-9	1.3 mg/L (Bluegill sunfish)	N/Av	None.		
Alcohols, C6-10, ethoxylated propoxylated	68987-81-5	4.2 - 11 mg/L (Rainbow trout) (Read-across)	N/Av	None.		
Alcohols, C8-10, ethoxylated propoxylated	68603-25-8	4.2 - 11 mg/L (Rainbow trout) (Read-across)	N/Av	None.		
Trisodium Hydroxyethylenediaminetriacetat e	139-89-9	331 mg/L (Bluegill sunfish)	> 25.7 mg/L/35 days (Zebra fish)	None.		
Phosphoric acid	7664-38-2	75.1 mg/L (Japanese ricefish)	N/Av	None.		

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER

MSDS CANADA

CC2637; CC2638 MSDS

MSDS No. LT16551

Version #: 1

Issue date: 05-27-2015

6/10



Components	CAS No	Toxicity to Daphnia			
	CAS NO	EC50 / 48h	NOEC / 21 day	M Factor	
Citric acid	77-92-9	1535 mg/L/24hr (Daphnia magna)	N/Av	None.	
Nonylphenol, ethoxylated	9016-45-9	4.8 mg/L (Daphnia magna)	N/Av	None.	
Alcohols, C6-10, ethoxylated propoxylated	68987-81-5	2.4 - 13.5 mg/L (Daphnia magna) (Read-across)	N/Av	None.	
Alcohols, C8-10, ethoxylated propoxylated	68603-25-8	2.4 - 13.5 mg/L (Daphnia magna) (Read-across)	N/Av	None.	
Trisodium Hydroxyethylenediaminetriacetate	139-89-9	192 mg/L (Daphnia magna)	25 mg/L	None.	
Phosphoric acid	7664-38-2	376 mg/L (Daphnia magna)	N/Av	None.	

Components	CAS No	Toxicity to Algae			
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor	
Citric acid	77-92-9	> 18 000 mg/L (Green algae) (Read-across)	N/Av	None.	
Nonylphenol, ethoxylated	9016-45-9	N/Av	N/Av	None.	
Alcohols, C6-10, ethoxylated propoxylated	68987-81-5	14 - 45 mg/L/72hr (Green algae) (Read-across)	10 mg/L/72hr	None.	
Alcohols, C8-10, ethoxylated propoxylated	68603-25-8	14 - 45 mg/L/72hr (Green algae) (Read-across)	10 mg/L/72hr (Read-across)	None.	
Trisodium Hydroxyethylenediaminetriacetate	139-89-9	12.06 mg/L/72hr (Green algae)	N/Av	None.	
Phosphoric acid	7664-38-2	32 mg/L/72hr (Green algae)	N/Av	None.	

Ecotoxicity

Harmful to aquatic life with long lasting effects. The product contains the following substances which are hazardous for the environment: Nonylphenol, ethoxylated; Alcohols, C6-10, ethoxylated propoxylated; Alcohols, C8-10, ethoxylated propoxylated. See above for individual ingredient ecotoxicity data.

Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Aquatic toxicity

None expected.

Persistence and degradability

No data is available on the product itself.

Contains the following chemicals which are not readily biodegradable: Trisodium

Hydroxyethylenediaminetriacetate; Phosphoric acid.

The following ingredients are considered to be readily biodegradable: Citric acid; Alcohols,

C6-10, ethoxylated propoxylated; Alcohols, C8-10, ethoxylated propoxylated.

Bioaccumulation / accumulation

No data is available on the product itself. See the following data for ingredient information.

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER Issue date: 05-27-2015 CC2637; CC2638 MSDS No. LT16551 Version #: 1 7/10

Filtration

MATERIAL SAFETY DATA SHEET

Partition coefficent n-octanol/water (log Kow)	Bioconcentration factor (BCF)	
- 1.72	3	
3.7	< 0.2 to < 1.4	
3.01	N/Av	
3.15 - 4.57	N/Av	
- 11.36 (calculated)	N/Av	
- 0.77	N/Av	
The product itself has not been tested.	nidakan katan ing mangangangangan ang mangangan katang mangangan katang mangangan mangang mangangan pangan pang	
material and its container must be disposed of as h material to drain into sewers/water supplies. Do no	azardous waste. Do not allow this t contaminate ponds, waterways or	
	- 1.72 3.7 3.01 3.15 - 4.57 - 11.36 (calculated)	

14. Transport information

Waste from residues / unused

Contaminated packaging

TDG

products

Not regulated as dangerous goods

ICAO/IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

General information

Appropriate advice on safety must accompany the package.

This product does not meet the criteria for an environmentally hazardous mixture, according

Dispose in accordance with all applicable federal, provincial, state and local regulations.

Empty containers should be taken for local recycling or waste disposal. Since emptied

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

to the IMDG Code. See Section 12 for more environmental information.

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the

CPR.

WHMIS status

WHMIS classification

Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

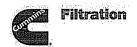
WHMIS labeling



MSDS CANADA Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER 8/10

MSDS No. LT16551 Version #: 1 CC2637; CC2638

Issue date: 05-27-2015



International Inventories

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

Components listed below are present on the following International Inventory lists:

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Citric acid	77-92-9	201-069-1	Present	Present	(2)-1318	KE-20831	Present	HSR003138
Nonylphenol, ethoxylated	9016-45-9	500-024-6	Present	Present	(7)-172	KE-26244	Present	HSR003054; HSNO Approval: HSR006598, HSR006618 (dilution)
Alcohols, C6-10, ethoxylated propoxylated	68987-81-5	Polymer	Present		(7)-97	KE-13420	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
Alcohols, C8-10, ethoxylated propoxylated	68603-25-8	Polymer	Present	Present	(7)-97	KE-13422	Present	HSR003962
Trisodium Hydroxyethylenediaminetri acetate	139-89-9	205-381-9	Present	Present	(2)-1268	KE-02967	Present	HSR004041
Phosphoric acid	7664-38-2	231-633-2	Present	Present	(1)-422	KE-27427	Present	HSR001545, HSR001571 (dilution)

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

NFPA Rating	0 - Minimal 1	- Slight	2 - Modera	te 3-	Serious	
:	Health: 2 Fi	lammability:0	Instabili	ty: 1 Spe	ecial Hazards:	None.
HMIS Rating :	*- Chronic hazard	0 - Minimal	1 - Slight	2 - Moderate	3 - Serious	
	Health: *2	Flammal	oility: 0	Read	ctivity: 1	
Issue date	05/27/2015					
Version #	1					
Legend	ACGIH: American AICS: Australian Inc CAS: Chemical At CSA: Canadian St EC50: Effective Col EINECS: European ENCS: Existing and HSDB: Hazardous IARC: International IBC: International IBC: Internation IOC: Inventory of CKECI: Korean Exist KECL: Korean Exist LC: Lethal Concent	ventory of Chemostract Services andards Associancentration 50% Inventory of Exit New Chemical Substances Data Agency for Resulk Container f Existing Chemicals Ing Chemicals Ir ting Chemicals I	ical Substandation . Isting Comme Substances Ita Bank search on Calical Substance Gerous Good	ces ercial chemical ancer		

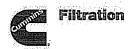
MSDS CANADA Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER

NIOSH: National Institute of Occupational Safety and Health

NOEC: No observable effect concentration NTP: National Toxicology Program

LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available

9/10



OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RTECS: Registry of Toxic Effects of Chemical Substances

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

Bibliography 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

> Biological Exposure Indices for 2015. 2. International Agency for Research on Cancer Monographs, searched 2015.

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).

4. Material Safety Data Sheets from manufacturer.

5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

Disclaimer

Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com

The information in this MSDS was obtained from sources, which we believe are reliable. However, since the conditions of handling and use are beyond our control, we assume no liability for damages incurred by use of this material. This MSDS was prepared, and is to be used, for this product only. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist. If the product is used as a component in another product, this information may not be applicable. Users of this product should satisfy themselves that the conditions and methods of use assure the product is used safely. No representations or warranties, either expressed or implied, of any nature are made hereunder with respect to the information contained herein. It is the responsibility of the user to comply with any and all federal, state, or local laws and regulations that may exist. Nothing contained herein is to be construed as a recommendation for use in violation of any applicable laws or regulations.

MSDS CANADA

Material name: RESTORE PLUS - ACID COOLING SYSTEM CLEANER

CC2637; CC2638 MSDS No. LT16551 Version #: 1

Issue date: 05-27-2015