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Supersedes : 06/06/2012

## LT16550 EU

## RESTORE alkaline cleaner - heavy duty

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Trade name/designation : RESTORE alkaline cleaner -

heavy duty

Product code : CC2610EDJ (3.785 L); CC2611 (18.9L Pail); CC2612 (208L Drum)

Product group : Trade product Document no. : LT16550 EU

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional uses

Use of the substance/mixture : Cleaner

#### 1.2.2. Uses advised against

No data available

## 1.3. Details of the supplier of the safety data sheet

Cummins Filtration
Unit 3 / Valley Drive / Valley Park / Rugby
CV21 1 TN Warwickshire - The United Kingdom
T +44 (0)1788 853600

Cummins Filtration Zone Industrielle du Grand Guelen

29556 Quimper Cedex 9 - France

+33 (0) 2 98 76 49 49

Cummins Filtration Catenbergstraat 1 2840 Rumst - Belgium

T +32 3 456 3000

productinfosds@cummins.com

### 1.4. Emergency telephone number

Emergency number : +44 (0) 1235 239670 (Carechem24)
Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 3 H412



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Full text of hazard classes and H-statements : see section 16

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

GHS05

Signal word : Danger

Hazardous ingredients : Tetrapotassium pyrophosphate; Nonylphenol, ethoxylated

Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER, a doctor.

P501 - Dispose of container, contents to a hazardous or special waste collection

point.

2.3. Other hazards

Other hazards : PBT/vPvB data : This mixture contains no substance considered to be persistent,

bioaccumulating nor toxic (PBT). vPvB: This information is not available.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nonylphenol, ethoxylated	(CAS-No.) 9016-45-9 (EC-No.) 500-024-6	10 - 20	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Potassium nitrate	(CAS-No.) 7757-79-1 (EC-No.) 231-818-8 (EC Index) -	1 - 5	Ox. Sol. 3, H272
Sodium silicate	(CAS-No.) 1344-09-8 (EC-No.) 215-687-4 (EC Index) -	1 - 5	Skin Corr. 1B, H314
Tetrapotassium pyrophosphate	(CAS-No.) 7320-34-5 (EC-No.) 230-785-7 (EC Index) -	1 - 5	Eye Dam. 1, H318 STOT SE 3, H335

Full text of H-statements: see section 16



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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Additional advice

: First aider: Pay attention to self-protection. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically. In case of doubt or persistent symptoms, consult always a physician.

Inhalation

: Keep at rest. Provide fresh air. In case of doubt or persistent symptoms, consult

always a physician.

Skin contact

: Wash with plenty of water/. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. In case of doubt or persistent symptoms, consult always a physician.

Ingestion

: Call a physician immediately. Rinse mouth out with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation

: Inhalation of mist causes irritation of respiratory system. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Skin contact

: Irritating to skin.

Eyes contact

: Causes serious eye damage. Most important symptoms : Pain. redness, itching,

tears.

Ingestion

: May cause nausea, abdominal spasms and irritation of the mucous membranes. The

absorption of this product into the body may lead to the formation of

methaemoglobine that, in sufficient concentration, causes cyanosis. Kidney injury may occur. Blood disorder may occur after ingestion.

## Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media

: Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.

Unsuitable extinguishing media

: Strong water jet .

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards

: On heating there is a risk of a build-up of pressure in hermetically sealed containers or tanks.

Hazardous decomposition products in case of fire

: Toxic fumes may be released. Carbon oxides (CO, CO2). Nitrogen oxides. Sulphur oxides. Sodium oxides. Phosphorus oxides.

#### 5.3. Advice for firefighters

Firefighting instructions

 Special protective equipment for firefighters. Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.



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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

For non-emergency personnel

: Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 6.1.2. For emergency responders

For emergency responders

: Ensure procedures and training for emergency decontamination and disposal are in place.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Provide adequate ventilation. Stop leak if safe to do so. Dilute with plenty of water. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

#### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Keep out of the reach of children. Use only in well ventilated areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. After use replace the closing cap immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from combustible material. Take any precaution to avoid mixing with combustibles/...

Hygiene measures

: Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Separate working clothes from town clothes. Take off contaminated clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Keep container tightly closed in a cool, well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Storage conditions Incompatible substances or mixtures Packaging materials : Keep in properly labelled containers.: Oxidizing agent. Reducing agent. Acids.: Keep only in the original container.

#### 7.3. Specific end use(s)

No data available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Potassium nitrate (7757-79-1)			
Bulgaria	OEL TWA (mg/m³)	5 mg/m³	
Latvia	OEL TWA (mg/m³)	5 mg/m³	
Lithuania	IPRV (mg/m³)	5 mg/m³	



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#### 8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Use only in area provided with appropriate exhaust

ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to

prevent /limit releases, dispersion and exposure. See also section 7 .

Personal protective equipment : Choose body protection according to the amount and concentration of the

dangerous substance at the work place.

Hand protection : Protective gloves complying with EN 374. The selection of specific gloves for a

specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection : During splash contact: tightly fitting safety goggles /. Safety glasses (EN166)

Body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Full face mask

(EN 136) (EN 136). Half-face mask (DIN EN 140) (EN 140). Filter type: A (EN 141).

Self-contained breathing apparatus (EN 133) .

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : liquid

Appearance : liquid. (clear).

Colour : No data available.

Odour : Slight /. odourless.

Odour threshold : No data available

pH : 11,1

Relative evaporation rate (butylacetate=1) : No data available Melting / freezing point : No data available Freezing point : No data available

Initial boiling point and boiling range : 100 °C

Flash point : Not applicable
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available

Vapour density : > 1

Relative density : 1,08 - 1,12

Solubility : No data available
Partition coefficient n-octanol/water : No data available
Kinematic viscosity : No data available
Dynamic viscosity : No data available

Explosive properties : Not applicable. The study does not need to be conducted because there are no

chemical groups associated with explosive properties present in the molecule.

Oxidising properties : Non oxidizing material according to EC criteria (UN O.2 - FAI-2017-0786).

Explosive limits : No data available

9.2. Other information

VOC content : No data available



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## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reference to other sections: 10.5.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See also section 7: Handling and storage.

#### 10.5. Incompatible materials

oxidising substances. Reducing agent. Acids. See also section 7: Handling and storage.

#### 10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Hazardous decomposition products. Carbon oxides. Nitrogen oxides (NOx). Sodium oxides. Sulphur oxides. Phosphorus compounds.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

Potassium nitrate (7757-79-1)			
LD50/oral/rat	3015 mg/kg		
Sodium silicate (1344-09-8)			
LD50/oral/rat	1960 mg/kg		
Nonylphenol, ethoxylated (9016-45-9)			
LD50/oral/rat	2590 mg/kg		
LD50/dermal/rabbit	1780 μl/kg		
Skin corrosion/irritation	: Causes skin irritation.		
	pH: 11,1		
Serious eye damage/irritation	: Causes serious eye damage.		
	pH: 11,1		
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)		
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)		
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)		
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)		
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.)		
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)		
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)		
Other information	: Symptoms related to the physical, chemical and toxicological characteristics. Reference to other sections: 4.2.		

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Environmental properties : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment. Should not be released into the environment. No data is available on the product itself.

Potassium nitrate (7757-79-1)		
(Poecilia reticulata)		
(		



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Sodium silicate (1344-09-8)		
LC50 fish 1	301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)	
LC50 fish 2 3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])		
Tetrapotassium pyrophosphate (7320-34-5)		
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: water flea)	

#### 12.2. Persistence and degradability

RESTORE alkaline cleaner - heavy duty	
Persistence and degradability	The product itself has not been tested.

#### 12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water	No data available	
Sodium silicate (1344-09-8)		
BCF fish 1	(no bioaccumulation expected)	

#### 12.4. Mobility in soil

RESTORE alkaline cleaner - heavy duty	
Ecology - soil	The product itself has not been tested.

#### 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Other adverse effects

Additional information : No information available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility. Dispose of contaminated

materials in accordance with current regulations.

Additional information : Delivery to an approved waste disposal company. In accordance with local and national regulations.

· Classi

European waste catalogue (2001/573/EC,

75/442/EEC, 91/689/EEC)

Classified as hazardous waste according to European Union regulations.

The following Waste Codes are only suggestions:

07 02 04\* - other organic solvents, washing liquids and mother liquors / 150110 - packaging containing residues of or contaminated by dangerous

substances.

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

III accordance with ADK / Kid / III/DG / IATA / ADN					
ADR	IMDG	IATA	ADN	RID	
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	



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ADR	IMDG	IATA	ADN	RID		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group	14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental	<u>hazards</u>					
Dangerous for the environment : No Dangerous for the environment : No Marine pollutant : No Dangerous for the environment : No Dangerous for the environment : No environment : No Dangerous for the environment : No						
No supplementary information available						

## 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	RESTORE alkaline cleaner - heavy duty
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	RESTORE alkaline cleaner - heavy duty
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	RESTORE alkaline cleaner - heavy duty
46(b) Nonylphenol ethoxylates (C2H4O)nC15H24O	Nonylphenol, ethoxylated
46.a. Nonylphenol ethoxylates (NPE) (C2H4O)nC15H24O	Nonylphenol, ethoxylated

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : No data available

#### 15.1.2. National regulations

France

Installations classées : NA



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Germany

VwVwS Annex reference : Water hazard class (WGK) 2, significant hazard to waters (Classification according

to VwVwS, Annex 4)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : 8 - Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment. (A)

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed NIET-limitatieve lijst van voor de : None of the components are listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: None of the components are listed

: None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

Indication of changes:

2	Modified
3	Removed
5	Removed
7	Modified
8	Added
9	Modified
10	Removed
11	Added
12.	Added
15	Added
16	Added

Abbreviations and acronyms:

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
CSR = CSR = Chemical Safety Report
EC50 = Median Effective Concentration
LD50 = Median lethal dose
LC50 = Median lethal concentration
N.O.S. = Not Otherwise Specified
DNEL = DNEL = Derived No Effect Level



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PNEC = Predicted No Effect Concentration
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the

datasheet

: LOLI. European Chemicals Bureau. ECHA. Information Supplier. Calculation

method. Article number: 9. Report: FAI-2017-0786.

Training advice

: Training staff on good practice. Manipulations are to be done only by qualified and

authorised persons.

#### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - chronic hazard category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - chronic hazard category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Ox. Sol. 3	Oxidizing solid Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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