

Safety Data Sheet

according to UK REACH Regulation

JMC Wall and wheel rim cleaner 5 kg

Revision date: 02.06.2023

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

JMC Wall and wheel rim cleaner 5 kg

UFI: 0EKX-GXT9-WG07-3HTU

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

DESCALERS

PC35 Washing and cleaning products

SU 22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name: Johannes J. Matthies GmbH & Co. KG

Street: Hammerbrookstr. 97

Place: D-20097 Hamburg

Telephone: + 49 (0) 40 2 37 21-0

e-mail: info@matthies.de

Internet: www.matthies.de

Supplier

Company name: Larsson UK Ltd.

Street: 7 Alpha Court, Phoenix Parkway

Place: GB-NN17 5DP Corby

Telephone: + 44 1536 265633

e-mail: info@larsson.uk.com

Internet: www.larsson.uk.com

1.4. Emergency telephone number: + 44 1536 265633**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Skin Corr. 1; H314

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

hydrogen chloride

ammonium hydrogen difluoride

L-(+)-lactic acid

oxalic acid

Signal word: Danger

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Pictograms:**Hazard statements**

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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/doctor.
P321 Specific treatment (see ... on this label).

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Endocrine disrupting potential none

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7647-01-0	hydrogen chloride			3 - 5 %
	231-595-7	017-002-00-2		
	Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A; H290 H331 H314			
77-92-9	citric acid			3 - 5 %
	201-069-1	607-750-00-3	01-2119457026-42	
	Eye Irrit. 2, STOT SE 3; H319 H335			
64-17-5	ethanol, ethyl alcohol			3 - 5 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
144-62-7	oxalic acid			1 - 3 %
	205-634-3	607-006-00-8	01-2119534576-33	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Dam. 1; H332 H312 H302 H318			
9038-95-3	Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether			1 - 3 %
	618-542-7			
	Acute Tox. 4; H302			
1341-49-7	ammonium hydrogen difluoride			1 - 3 %
	215-676-4	009-009-00-4		
	Acute Tox. 3, Skin Corr. 1B; H301 H314			
79-33-4	L-(+)-lactic acid			1 - 3 %
	201-196-2	607-743-00-5		
	Skin Corr. 1C, Eye Dam. 1; H314 H318 EUH071			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			1 - 3 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
7647-01-0	231-595-7	hydrogen chloride	3 - 5 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists)	
77-92-9	201-069-1	citric acid	3 - 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 6730 mg/kg	
64-17-5	200-578-6	ethanol, ethyl alcohol	3 - 5 %
		dermal: LD50 = 20000 mg/kg; oral: LD50 = 7060 mg/kg Eye Irrit. 2; H319: >= 50 - 100	
144-62-7	205-634-3	oxalic acid	1 - 3 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 375 mg/kg	
9038-95-3	618-542-7	Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	1 - 3 %
		oral: ATE = 500 mg/kg	
1341-49-7	215-676-4	ammonium hydrogen difluoride	1 - 3 %
		inhalation: LC50 = 1276 mg/l (dusts or mists); oral: LD50 = 130 mg/kg Skin Corr. 1B; H314: >= 1 - 100 Skin Irrit. 2; H315: >= 0,1 - < 1 Eye Irrit. 2; H319: >= 0,1 - < 1	
79-33-4	201-196-2	L-(+)-lactic acid	1 - 3 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 3730 mg/kg	
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	1 - 3 %
		inhalation: LC50 = 16000 mg/l (vapours); dermal: LD50 = 12800 mg/kg; oral: LD50 = 5045 mg/kg	

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % amphoteric surfactants, < 5 % anionic surfactants, < 5 % non-ionic surfactants.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation

Provide fresh air. Do not leave affected person unattended.

After contact with skin

Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. Immediately call a POISON CENTER.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious but breathing normally, place in recovery position and seek medical advice. Call a physician immediately.

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

Irritating to eyes and respiratory system. (Cough)

Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

In case of fire may be liberated: AOX, Nitrogen oxides (NO_x), Carbon monoxide, Pyrolysis products, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Suitable material: Cleaning agent

Unsuitable material: Solvent

Other information

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes.

Personal protection equipment: see section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in a well-ventilated place. Store in a dry place. Keep container tightly closed. Peroxide formation possible with air oxygen.

Hints on joint storage

To follow: TRGS 510

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Do not store together with: Strong acid, Strong alkali. Oxidising agent, strong. Reducing agent, strong.

Further information on storage conditions

Protect against: Humidity, UV-radiation/sunlight

storage temperature: > 0 °C

7.3. Specific end use(s)

DESCALERS

PC35 Washing and cleaning products

SU 22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
16984-48-8	Fluoride (inorganic as F)	-	2.5		TWA (8 h)	WEL
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL
144-62-7	Oxalic acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol			
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Worker DNEL, acute		inhalation	local	1900 mg/m³
Worker DNEL, acute		inhalation	systemic	950 mg/m³
144-62-7	oxalic acid			
Worker DNEL, acute		dermal	local	0,69 mg/cm²
Worker DNEL, long-term		dermal	systemic	2,29 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	4,03 mg/m³
1341-49-7	ammonium hydrogen difluoride			
DNEL, long-term		inhalation	systemic	2,3 mg/m³
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
Worker DNEL, long-term		inhalation	systemic	500 mg/m³

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PNEC values

CAS No	Substance	
Environmental compartment		Value
77-92-9	citric acid	
Freshwater		0,44 mg/l
Marine water		0,044 mg/l
Micro-organisms in sewage treatment plants (STP)		> 1000 mg/l
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg
144-62-7	oxalic acid	
Freshwater		0,1622 mg/l
Marine water		0,01622 mg/l
1341-49-7	ammonium hydrogen difluoride	
Freshwater		1,3 mg/l
Micro-organisms in sewage treatment plants (STP)		76 mg/l
Soil		22 mg/kg
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
Marine water		140,9 mg/l
Marine sediment		552 mg/kg
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations. Provide eye shower and label its location conspicuously

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Eye/face protection

@ES04.B001645 Eye glasses with side protection.

Hand protection

@ES04.B000919 (EN 3888)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable material: NBR (Nitrile rubber)

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Dicke des Handschuhmaterials: 0,4 mm

Breakthrough time:: > 480 min.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Suitable respiratory protection apparatus: S/SL, P2, white (EN 149)

Environmental exposure controls

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	colourless
Odour:	acidic
Odour threshold:	not determined
pH-Value:	1,8 (+/- 1)

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

Flammability

Solid/liquid:	Non-flammable.
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,05 g/cm ³
Water solubility:	soluble

Solubility in other solvents

Fat solubility: No information available.	
Partition coefficient n-octanol/water:	not determined
Viscosity / kinematic:	not determined
Relative vapour density:	not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Humidity, UV-radiation/sunlight

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10.5. Incompatible materials

Strong acid, Strong alkali. Oxidising agent, strong. Reducing agent, strong.

10.6. Hazardous decomposition productsIn case of fire may be liberated: AOX, Nitrogen oxides (NO_x), Carbon monoxide, Pyrolysis products, toxic**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 2706,1 mg/kg; ATE (dermal) 36789,3 mg/kg; ATE (inhalation vapour) 51,68 mg/l; ATE (inhalation dust/mist) 8,352 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7647-01-0	hydrogen chloride				
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			
77-92-9	citric acid				
	oral	LD50 6730 mg/kg	Ratte	Manufacturer	
	dermal	LD50 > 2000 mg/kg	Ratte	Manufacturer	
64-17-5	ethanol, ethyl alcohol				
	oral	LD50 7060 mg/kg	Rat	Manufacturer	
	dermal	LD50 20000 mg/kg	Rabbit	Manufacturer	
144-62-7	oxalic acid				
	oral	LD50 375 mg/kg	Rat	Manufacturer	
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
9038-95-3	Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether				
	oral	ATE 500 mg/kg			
1341-49-7	ammonium hydrogen difluoride				
	oral	LD50 130 mg/kg	Rat	Manufacturer	
	inhalation (1 h) dust/mist	LC50 1276 mg/l	Rat	Manufacturer	
79-33-4	L-(+)-lactic acid				
	oral	LD50 3730 mg/kg	Rat	Manufacturer	
	dermal	LD50 >2000 mg/kg	Rabbit	Manufacturer	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 5045 mg/kg	Rat	Manufacturer	
	dermal	LD50 12800 mg/kg	Rabbit	Manufacturer	
	inhalation vapour	LC50 16000 mg/l	Rat	Manufacturer	

Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data)

Causes serious eye damage. (On basis of test data)

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

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STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards**Endocrine disrupting properties**

@0203.B000030

Other information

Irritating to eyes and respiratory system. (Cough)

Causes severe skin burns and eye damage.

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
77-92-9	citric acid					
	Acute crustacea toxicity	EC50 120 mg/l	48 h	Daphnia spec.	Manufacturer	
144-62-7	oxalic acid					
	Acute crustacea toxicity	EC50 162,2 mg/l	48 h	Daphnia spec.	Manufacturer	
9038-95-3	Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	piscis	Manufacturer	
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia spec.	Manufacturer	
1341-49-7	ammonium hydrogen difluoride					
	Acute fish toxicity	LC50 237 mg/l	96 h	Piscis	Manufacturer	
	Acute algae toxicity	ErC50 43 mg/l	96 h	Algae	Manufacturer	
	Acute crustacea toxicity	EC50 97 mg/l	48 h	Daphnia sp.	Manufacturer	
79-33-4	L-(+)-lactic acid					
	Acute fish toxicity	LC50 320 mg/l	96 h	piscis	Manufacturer	
	Acute algae toxicity	ErC50 3500 mg/l	72 h	Algae	Manufacturer	
	Acute crustacea toxicity	EC50 240 mg/l	48 h	Daphnia spec.	Manufacturer	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
9038-95-3	Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether			
	OECD 301F	60 %		Manufacturer
	Biodegradable.			

12.3. Bioaccumulative potential

The product has not been tested.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
77-92-9	citric acid	-1,7200
144-62-7	oxalic acid	-1,7
1341-49-7	ammonium hydrogen difluoride	-4,37
79-33-4	L-(+)-lactic acid	-0,62

12.4. Mobility in soil

The product has not been tested.

Mobility in soil:

log K_{oc} (propan-2-ol; isopropyl alcohol; isopropanol): 0,117995**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

This material and its container must be disposed of as hazardous waste. Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of Wastes Code - residues/unused products

200114 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Acids; hazardous waste

List of Wastes Code - used product

200114 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Acids; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

UN 3264

14.2. UN proper shipping name:

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrogen chloride, L-(+)-lactic acid, ammonium hydrogen difluoride)

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Classification code:

C1

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Special Provisions: 274
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 80
 Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 3264
14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrogen chloride, L-(+)-lactic acid, ammonium hydrogen difluoride)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Classification code: C1
 Special Provisions: 274
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 3264
14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrogen chloride, L-(+)-lactic acid, ammonium hydrogen difluoride)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Marine pollutant: -
 Special Provisions: 223 274
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-B
 Segregation group: 1 - acids

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3264
14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrogen chloride, L-(+)-lactic acid, ammonium hydrogen difluoride)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Special Provisions: A3 A803
 Limited quantity Passenger: 1 L
 Passenger LQ: Y841
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 852

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IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: corrosive.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): < 10 %

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Regulation (EC) No. 648/2004 (Detergents regulation)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 3 - highly hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

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

SECTION 16: Other information**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

M-Factor: Multiplication Factor

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

Safety Data Sheet

according to UK REACH Regulation

JMC Wall and wheel rim cleaner 5 kg

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(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

TI: Technical Instructions

DGR: Dangerous Goods Regulations

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

EG or EC: European Community

IE: Industrial Emissions

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
EUH071	Corrosive to the respiratory tract.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)