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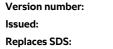
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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Trade name Care tab Article No. 56.00.563; 56.01.528; 56.01.530 UFI code R5YU-WM0D-PR18-HMMV 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses Care tabs for all iHexagon, iCombi Pro, iCombi Classic and SCC models with Efficient CareControl for commercial use. Not suitable for use in All other uses are discouraged. 1.3. Details of the supplier of the safety data sheet Supplier LechMetall GmbH Address Siegfried-Meister-Straße 1 86899 Landsberg am Lech Germany Telephone +49 8191 327 387 Email reinigung@lechmetall.de Fax +49 8191 327 231 1.4. Emergency telephone number Emergency CONTACT (24-Hour-Number): +49 6132 844 63 Available outside office hours Yes

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Skin corrosion, hazard category 1B

Serious eye damage, hazard category 1

Specific Target Organ Toxicity - Single exposure, hazard category 3 - respiratory tract irritation

Hazard statements

H314, H318, H335

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word Danger

Hazard statements

H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand. P280 Wear protective gloves/eye protection. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

More information

Hazard components for labeling: Citric acid , Malic acid , adipic acid

2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
DL-malic acid	617-48-1 210-514-9 01-2119552463- 40-xxxx -	20 - 50%	Skin Irrit. 2, Eye Irrit. 2	H315, H319 - -	-
citric acid	77-92-9 201-069-1 01-2119457026- 42-xxxx 607-750-00-3	20 - 50%	Eye Irrit. 2, STOT SE 3 - resp. tract irrit.	H319, H335 - -	-
adipic acid	124-04-9 204-673-3 01-2119457561- 38-xxxx 607-144-00-9	5 - 15%	Eye Irrit. 2	H319 - -	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.

<u>Inhalation</u>

Not applicable.

<u>Skin contact</u>

Wash off with soap and water. In the case of skin irritation or allergic reactions see a physician.

Eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

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Ingestion

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Consult a physician if necessary.

Information for doctors

For specialist advice physicians should contact the Poisons Information Service.

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

Immediate effects can be expected after long-term exposure.

<u>Inhalation</u>

Not applicable.

<u>Skin contact</u> Causes severe skin burns.

<u>Eye contact</u> Causes severe eye burns.

Ingestion

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

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

Treat symptomatically.

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide (CO2).

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Measures in case of fire

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid direct contact with the material / product.

6.2. Environmental precautions

Not required.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Dispose of as hazardous waste in compliance with local and national regulations.

6.4. Reference to other sections

For information on storage and handling see section 7. For information on exposure and personal protective equipment, see Section 8. For information on incompatible materials, see Section 10. For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Avoid direct contact with the material / product. Wear personal protective equipment.

General hygiene

Wash hands after handling. When using, do not eat, drink or smoke. The usual precautionary measures when handling chemicals must be observed.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Store in a place accessible by authorized persons only. Keep out of reach of children.

Storage class according to TRGS 510: 8A (Flammable, corrosive hazardous substances)

Suitable container and packaging materials for safe storage: store in original container.

Storage temperature: 10°C to 40°C

7.3. Specific end use(s)

PC35 - Washing and cleaning products (including solvent based products) See section Care-Tab

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<u>DNEL/DMEL</u>

Product/Substance name (CAS No./EC No.)	Туре	Exposure	Value	Population	Effects
DL-malic acid (617-48-1/210-514-9)	DNEL	Chronic (long term) Inhalation	32 mg/m ³	Workers	Local
DL-malic acid (617-48-1/210-514-9)	DNEL	Chronic (long term) Inhalation	5.33 mg/m ³	Workers	Systemic
DL-malic acid (617-48-1/210-514-9)	DNEL	Chronic (long term) Inhalation	1.6 mg/m ³	Consumers	Local
DL-malic acid (617-48-1/210-514-9)	DNEL	Chronic (long term) Oral	6 mg/kg	Consumers	Systemic
DL-malic acid (617-48-1/210-514-9)	DNEL	Acute (short term) Oral	20 mg/kg	Consumers	Systemic
DL-malic acid (617-48-1/210-514-9)	DNEL	Acute (short term) Inhalation	104 mg/m ³	Workers	Systemic
DL-malic acid (617-48-1/210-514-9)	DNEL	Acute (short term) Inhalation	52 mg/m ³	Consumers	Systemic
adipic acid (124-04-9/204-673-3)	DNEL	Chronic (long term) Inhalation	74.1 mg/m ³	Workers	Systemic
adipic acid (124-04-9/204-673-3)	DNEL	Chronic (long term) Dermal	21 mg/kg	Workers	Systemic
adipic acid (124-04-9/204-673-3)	DNEL	Chronic (long term) Inhalation	13 mg/m ³	Consumers	Systemic
adipic acid (124-04-9/204-673-3)	DNEL	Chronic (long term) Dermal	7.5 mg/kg	Consumers	Systemic
adipic acid (124-04-9/204-673-3)	DNEL	Chronic (long term) Oral	7.5 mg/kg	Consumers	Systemic

<u>PNEC/PEC</u>

Product/Substance name (CAS No./EC No.)	Туре	Environmental compartment	Value
DL-malic acid (617-48-1/210-514-9)	PNEC	Freshwater	0.1 mg/l

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Product/Substance name (CAS No./EC No.)	Туре	Environmental compartment	Value
DL-malic acid (617-48-1/210-514-9)	PNEC	Marine water	0.01 mg/l
DL-malic acid (617-48-1/210-514-9)	PNEC	Sewage Treatment Plant	3 mg∕l
adipic acid (124-04-9/204-673-3)	PNEC	Freshwater	126 µg/l
adipic acid (124-04-9/204-673-3)	PNEC	Intermittent releases (freshwater)	460 µg∕I
adipic acid (124-04-9/204-673-3)	PNEC	Marine water	12.6 µg/I
adipic acid (124-04-9/204-673-3)	PNEC	Sediment (freshwater)	474 µg∕kg
adipic acid (124-04-9/204-673-3)	PNEC	Sediment (marine water)	47.4 μg/kg
adipic acid (124-04-9/204-673-3)	PNEC	Soil	0.0208 mg/kg
citric acid (77-92-9/201-069-1)	PNEC	Freshwater	0.44 mg/l
citric acid (77-92-9/201-069-1)	PNEC	Marine water	0.044 mg/l
citric acid (77-92-9/201-069-1)	PNEC	Sewage Treatment Plant	1000 mg/l
citric acid (77-92-9/201-069-1)	PNEC	Sediment (freshwater)	34.6 mg∕kg
citric acid (77-92-9/201-069-1)	PNEC	Sediment (marine water)	3.46 mg/kg
citric acid (77-92-9/201-069-1)	PNEC	Soil	33.1 mg/kg

8.2. Exposure controls

Appropriate engineering controls Not required.

Eye / face protection

Chemical-resistant safety glasses with side protection conforming to EN166.

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Hand protection

Chemical-resistant protective gloves (EN 374)

Suitable material: Butyl (butyl rubber) or NBR (nitrile rubber), category III according to EN 374. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Other skin protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Respiratory protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Thermal hazards

Not applicable

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Tablet

Colour White

<u>Odour</u> Characteristic

Odour threshold No information available.

Melting point / freezing point Not applicable.

Boiling point or initial boiling point and boiling range Not applicable.

Flammability Not applicable.

Lower and upper explosion limit The product / mixture has no explosive properties.

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Flash point

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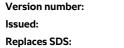
No data available Auto-ignition temperature Not applicable. **Decomposition temperature** No information available. <u>рН</u> 2.5 Method 1% aqueous solution Kinematic viscosity Not applicable. Viscosity, dynamic Not applicable. Solubility Water soluble Water solubility Completely soluble Partition coefficient n-octanol/water No information available. Vapour pressure Not applicable. Density and/or relative density 820 - 900 kg/m³ Method Bulk density Relative density No information available.

<u>Relative vapour density</u> Not applicable.

Evaporation Rate Not applicable.

<u>Explosive properties</u> The product / mixture has no explosive properties.

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Oxidising properties

The product / mixture has no oxidizing properties.

<u>VOC %</u>

< 3 %

Particle characteristics

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal conditions

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Protect from moisture.

10.5. Incompatible materials

Strong bases Light metals Oxidizing agent

10.6. Hazardous decomposition products

For information on combustion products, see Section 5. Hazardous decomposition products formed under fire conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicology data for the components.

Acute toxicity

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

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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
citric acid 77-92-9 / 201-069-1	LD50	5.400 mg/kg	Oral	-	mouse	OECD 401	ECHA
citric acid 77-92-9 / 201-069-1	LD50	>2.000 mg/kg	Dermal	-	rat	OECD 402	ECHA
DL-malic acid 617-48-1 / 210-514-9	LD50	9.300 mg/kg	Oral	-	rat	OECD 401	-
DL-malic acid 617-48-1 / 210-514-9	LC50	>1.306 mg/l	Inhalation	4 h	rat	OECD 403	-
adipic acid 124-04-9 / 204-673-3	LD50	5560 mg/kg	Oral	-	rat	OECD 401	ECHA

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Causes severe eye burns.

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

<u>STOT-single exposure</u> May cause respiratory irritation.

STOT-repeated exposure

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

Aspiration hazard

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

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11.2. Information on other hazards

Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

SECTION 12: Ecological information

12.1. Toxicity

<u>Toxicity</u>

Toxicology data for the components.

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
citric acid 77-92-9 / 201- 069-1	LC50	440 mg/l	48 h	Leuciscus idus	OECD 203	ECHA
DL-malic acid 617-48-1 / 210-514-9	LC50	>100 mg/l	96h	Danio rerio	OECD 203	-
adipic acid 124-04-9 / 204-673-3	LC0	>1.000 mg/l	96h	Danio rerio	-	ECHA

Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
DL-malic acid 617-48-1 / 210-514-9	EC50	>100 mg/l	72h	Pseudokirchneri- ella subcapitata	Static test	-
adipic acid 124-04-9 / 204-673-3	ErC50	59 mg/l	72h	Pseudokirchneri- ella subcapitata	OECD 201	ECHA

Acute crustacean toxicity

According to Regulation (EC) No 1907/2006



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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
citric acid 77-92-9 / 201- 069-1	LC50	1.535 mg/l	24 h	Daphnia magna	-	ECHA
DL-malic acid 617-48-1 / 210-514-9	EC50	47,52 mg/l	48h	Daphnia magna	OECD 202	-
adipic acid 124-04-9 / 204-673-3	LC50	46 mg/l	48h	Daphnia magna	OECD 202	ЕСНА

Micro-/macro organism toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of expos- ure	Species	Method / Guideline
DL-malic acid 617-48-1 / 210- 514-9	EC50	>300 mg/l	3h	Bacteria (activated sludge)	OECD 209

12.2. Persistence and degradability

Persistence and degradability

Readily biodegradable, according to appropriate OECD test.

OECD test guideline: 301 B (CO2 Evolution test)

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential

No information is available for this item.

12.4. Mobility in soil

<u>Mobility</u>

No information is available for this item.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

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12.7. Other adverse effects

Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

Packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging / sheets: Dispose of as unused product.

Waste code	Waste description		
20 01 29*	detergents containing hazardous substances		
Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.			

SECTION 14: Transport information

14.1. UN number

3261

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

3261 - CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Citric acid, Malic acid, adipic acid)

IMDG proper shipping name

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID, MALIC ACID, ADIPIC ACID)

14.3. Transport hazard class(es)

<u>Label</u> ADR/RID/ADN



ADR / RID Class 8

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ADR / RID Classification code

C4

ADR / RID hazard identification number 80

<u>IMDG Class</u> 8

IATA Class

8

ADN Class

8

ADN Class Code C4

14.4. Packing group

Ш

14.5. Environmental hazards <u>Environmental hazards</u> No

> *IMDG Marine Pollutant* No

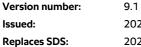
14.6. Special precautions for user <u>IMDG EmS</u> F-A,S-B

14.7. Maritime transport in bulk according to IMO instruments Not applicable.

Other

<u>Additional information ADR-RID</u> LQ: 1 kg EQ: E1 Transport category (tunnel restriction code): 2 (E)

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SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 648/2004 (detergents) Ingredients according to Annex VII: <5% non-ionic surfactants, , polycarboxylates .

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EC) No. 1907/2006 (REACH) Substances subject to authorization according to Annex XIV: Not applicable. Substance restrictions according to Annex XVII: Not applicable. Substances on the REACH candidate list (SVHC): Not applicable.

Regulation (EU) No. 528/2012 (BPR) Active ingredients: Not applicable.

Regulation (EU) 2019/1148 (explosives) Restricted raw material according to Annex I: Not applicable. Notifiable raw materials according to Annex II: Not applicable.

Directive 2011/65 / EU (ROHS 2) Substance restrictions according to Annex II: Not applicable.

Regulation (EU) 2019/1021 (POP) Persistent organic pollutants: Not applicable.

Directive 2012/18/EU (Seveso III) Seveso hazard category: Not applicable.

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

SECTION 16: Other information

Changes to previous revision

Addition iHexagon SECTION : 1.2 Addition PNC SECTION : 1.4 Addition Suitable material: SECTION : 8.2

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Abbreviations

ADN - European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

- ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS Chemical Abstract Service
- CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL Derived Minimum Effect Level
- DNEL Derived No Effect Level
- EC50 Half maximal effective concentration 50%
- GHS Globally Harmonized System of Classification and Labelling of Chemicals
- IATA International Air Transport Association
- IMDG International Maritime Dangerous Goods
- LC50 Lethal concentration 50%
- LD50 Lethal dosis 50 %

MARPOL - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of

- 1978. ("Marpol" marine pollution)
- PBT Persistent, bioaccumulative and toxic substance
- PEC Predicted Environmental Concentration
- PNEC Predicted No Effect Concentration
- REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID The regulations concerning the International Carriage of Dangerous Goods by Rail
- SVHC Substance of Very High Concern
- vPvB Very persistent, very bioaccumulative substance

References to key literature and data sources

REACH registration dossiers ECHA C&L - Inventory Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]: Health hazards: OECD 431 (reconstructed human epidermis); OECD 438 (Isolated Chicken Eye Test)

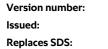
Phrase meaning

Skin Corr. 1B - Skin corrosion, hazard category 1B
Eye Dam. 1 - Serious eye damage, hazard category 1
STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation
Skin Irrit. 2 - Skin irritation, hazard category 2
Eye Irrit. 2 - Eye irritation, hazard category 2
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.



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Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.