

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Trade name : Care tabs

1.2. Other means of identification

Article number : 56.00.562, 56.01.527, 56.01.529

Other means of identification : Care tabs

1.3. Recommended use of the chemical and restrictions on use

Recommended use : RATIONAL care tabs for all iHexagon, iCombi Pro, iCombi Classic and SelfCookingCenter® models with Efficient CareControl for commercial use.

Restrictions on use : All other uses not recommended above

1.4. Supplier details

Manufacturer/Supplier

RATIONAL AG

Siegfried-Meister-Straße 1

86899 Landsberg am Lech

Germany

T +49 8191 327 387 - F +49 8191 327 231

reinigung@rational-online.com - www.rational-online.com

Email competent person

sds@kft.de

1.5. Emergency phone number

Emergency number : +49 (0)6132 84463 - GBK GmbH (24h 7d/w - 365d/a)

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Skin corrosion or irritation, Category 1B H314

Serious eye damage or eye irritation, Category 1 H318

Specific target organ toxicity – Single exposure, Category 3, H335

Respiratory tract irritation

2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY) :



Signal word (GHS MY) : Danger

Contains : citric acid; malic acid; adipic acid

Hazard statements (GHS MY) : H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

Precautionary statements (GHS MY) : 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): Remove/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

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P310 - Immediately call a POISON CENTER or doctor/physician

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

2.3. Other hazards that do not result in classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)
citric acid	CAS-No.: 77-92-9	≥ 25 – < 50	Eye Irrit. 2, H319 STOT SE 3, H335
malic acid	CAS-No.: 6915-15-7	≥ 25 – < 50	Eye Irrit. 2, H319
adipic acid	CAS-No.: 124-04-9	≥ 5 – < 10	Eye Irrit. 2, H319

SECTION 4: First-aid measures

4.1. Description of necessary first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Strong water jet.

5.2. Physicochemical hazards arising from the chemical

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Carbon dioxide.
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According to ICOP 2014

5.3. Special protective equipment and precautions for fire fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
EAC code	: 2X
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up	: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Information about storage in one common storage facility	: Keep away from food, drink and animal feeding stuffs.
Storage temperature	: 10 – 40 °C
Special rules on packaging	: Store in original container or corrosive resistant and/or lined container.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

adipic acid (124-04-9)

Malaysia - Occupational Exposure Limits

Local name	Asid adipik # Adipic acid
PEL (OEL TWA)	5 mg/m ³
MEL (mg/m ³)	15 mg/m ³

Exposure limit values for the other components

No additional information available

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8.1.1 Biological monitoring

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.3. Individual protection measures, such as PPE

Hand protection:

In case of contact with the skin : Chemically resistant protective gloves. ISO 374-1. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber	6 (> 480 minutes)	0,35	No additional information available	EN ISO 374-1

Eye protection:

Not required for normal conditions of use. In case of dust production: protective goggles. ISO 16321-1. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

Skin and body protection:

Not required for normal conditions of use

Respiratory protection:

Not required for normal conditions of use. Dust production: dust mask with filter type P2. EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state	: Solid
Appearance	: tablet.
Colour	: white
Odour	: characteristic
Odour threshold	: No data available
pH	: 2.5 pH solution concentration: 1 % (1 % Aqueous solution)
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Evaporation rate	: Relative evaporation rate (butylacetate=1): Not applicable
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: Vapour pressure: Not applicable
Relative vapour density at 20°C	: Not applicable
Relative density	: No data available
Solubility	: Water: completely soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
VOC content	: < 3 %

SECTION 10: Stability and reactivity

Reactivity	: Stable under normal conditions of use
Chemical stability	: Stable under normal conditions of use
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use
Conditions to avoid	: Protect from moisture.
Incompatible materials	: Strong bases, Light metals, Oxidation agents
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion or irritation	: Causes severe skin burns. (OECD 431 method) pH: 2.5
Serious eye damage or eye irritation	: Causes serious eye damage. (OECD 438 method)
Respiratory sensitization	: Not classified (Based on available data, the classification criteria are not met)
Skin sensitization	: 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)
Specific target organ toxicity (STOT) – single exposure	: May cause respiratory irritation.

citric acid (77-92-9)	
Specific target organ toxicity (STOT) – single exposure	May cause respiratory irritation.
Specific target organ toxicity (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)
Care tabs	
Viscosity, kinematic	Not applicable

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

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12.2. Persistence and degradability

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Persistence and degradability	Readily biodegradable. (OECD 301B method). Contained surfactants are biodegradable.
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citric acid (77-92-9)

Persistence and degradability	Readily biodegradable.
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Biodegradation	100 % (19 d; (OECD 301E method))
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malic acid (6915-15-7)

Persistence and degradability	Readily biodegradable.
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Biodegradation	73 % (14 d; (OECD 301C method))
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adipic acid (124-04-9)

Persistence and degradability	Readily biodegradable.
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Biodegradation	83 % (30 d; (OECD 301D method))
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12.3. Bioaccumulative potential

Care tabs

Bioaccumulative potential	The product has not been tested.
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citric acid (77-92-9)

Partition coefficient n-octanol/water (Log Pow)	-1.8 – -1.55
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Bioaccumulative potential	Bioaccumulation unlikely.
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malic acid (6915-15-7)

Partition coefficient n-octanol/water (Log Pow)	-6.14 (20 °C; Quantitative structure-activity relationship (QSAR))
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Bioaccumulative potential	Bioaccumulation unlikely.
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adipic acid (124-04-9)

Bioconcentration factor (BCF REACH)	3.162 (calculated value)
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Partition coefficient n-octanol/water (Log Pow)	0.093 (25 °C; pH 3,3; (OECD 107 method))
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.21 – 1.39 (Quantitative structure-activity relationship (QSAR))
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Bioaccumulative potential	Bioaccumulation unlikely.
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12.4. Mobility in soil

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Mobility in soil	No additional information available
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citric acid (77-92-9)

Partition coefficient n-octanol/water (Log Pow)	-1.8 – -1.55
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malic acid (6915-15-7)

Partition coefficient n-octanol/water (Log Pow)	-6.14 (20 °C; Quantitative structure-activity relationship (QSAR))
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adipic acid (124-04-9)

Partition coefficient n-octanol/water (Log Pow)	0.093 (25 °C; pH 3,3; (OECD 107 method))
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.21 – 1.39 (Quantitative structure-activity relationship (QSAR))
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According to ICOP 2014

12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)
Other adverse effects : No additional information available

SECTION 13: Disposal information

13.1. Disposal methods

Waste treatment methods : Disposal must be done according to official regulations. Do not discharge into drains or the environment. Do not dispose of with domestic waste.
Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

SECTION 14: Transportation information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
3261	3261	3261
14.2. UN proper shipping name		
CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (citric acid ; malic acid ; adipic acid)	Corrosive solid, acidic, organic, n.o.s. (citric acid ; malic acid ; adipic acid)	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (citric acid ; malic acid ; adipic acid)
Transport document description		
UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (citric acid ; malic acid ; adipic acid), 8, II	UN 3261 Corrosive solid, acidic, organic, n.o.s. (citric acid ; malic acid ; adipic acid), 8, II	UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (citric acid ; malic acid ; adipic acid), 8, II
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing Group, if applicable		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available		

14.6. Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not applicable

14.7. Special precautions for user

UN RTDG

Special provisions (UN RTDG) : 274
Limited quantities (UN RTDG) : 1 kg
Excepted quantities (UN RTDG) : E2
Packing instruction (UN RTDG) : P002, IBC08
Special packing provisions (UN RTDG) : B2, B4

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According to ICOP 2014

Portable tank and bulk container special instructions (UN RTDG) : T3
Portable tank and bulk container special provisions (UN RTDG) : TP33

IMDG

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 kg
Excepted quantities (IMDG) : E2
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Segregation (IMDG) : SGG1, SG36, SG49

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y844
PCA limited quantity max net quantity (IATA) : 5kg
PCA packing instructions (IATA) : 859
PCA max net quantity (IATA) : 15kg
CAO max net quantity (IATA) : 50kg
Special provisions (IATA) : A3, A803

14.8. Hazchem or Emergency Action Code

EAC code : 2X.

SECTION 15: Regulatory information

15.1. Safety, health, and environmental regulations specific for the hazardous chemical in question

Care tabs		
Regulation		Component/ Mixture
EHS Notification and Registration Scheme	Not applicable	Care tabs
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993		Care tabs
Environmental Quality (Industrial Effluent) Regulations 2009		Care tabs
Environmental Quality (Scheduled Wastes) Regulations 2007		Care tabs
Control of Industrial Major Accident Hazards Regulations 1996		Care tabs
Prohibition of Use of Substance Order 1999		Care tabs
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000		Care tabs
Chemical Weapons Convention Act		Care tabs
Corrosive and Explosive Substances and Offensive Weapons Act		Care tabs
Dangerous Drugs Act		Care tabs
Pesticides Act		Care tabs
Petroleum (Safety Measures) Act		Care tabs
Poisons Act 1952		Care tabs
Poisons (Psychotropic Substances) Regulations 1989		Care tabs

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According to ICOP 2014

15.2. International agreements

No additional information available

SECTION 16: Other information

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Revision date : 9/19/2025

Data sources : Information provided by the manufacturer. MSDSs of the suppliers. European Chemicals Agency, <http://echa.europa.eu/>.

Other information : This safety data sheet is for informational purposes only and does not comply with national legal requirements without reference to a national distributor. The national distributor is responsible for a legally compliant safety data sheet.

Full text of H-statements

Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2	Serious eye damage or eye irritation, Category 2
Skin Corr. 1B	Skin corrosion or irritation, Category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation

KFT SDS MY 11 - Version 25.1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.