Care-Tab for RATIONAL SelfCookingCenter®

Safety Data Sheet

Acording to the NOM-018-STPS-2015
Date of issue: 26/11/2018 Version: 6.5
SDS No: 00625-0016

SECTION 1: Identification of the hazardous chemical substance or mixture and the supplier or manufacturer

1.1. Name of the hazardous chemical substance or mixture

Product form : Mixture
Product name : Care-Tab for RATIONAL SelfCooking Center®, Art. No. 56.00.560, 56.00.562

1.2. Other means of identification

No additional information available

1.3. Recommended use of the hazardous chemical substance or mixture, and restrictions on use

Recommended use : Care product

1.4. Data of the supplier or manufacturer

RATIONAL AG
Siegfried-Meister-Straße 1
86899 Landsberg am Lech, Germany
T +49 8191 327-236 - F +49 8191 327-72 236

E-mail address of competent person responsible for the SDS: reinigung@rational.com

1.5. Emergency phone number

Emergency number : +49 89 - 19 240 Giftnotruf München 'Klinikum rechts der Isar'

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical substance or mixture

GHS MX classification

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319

Full text of H statements : see section 16

2.2. Signage elements, including the Councils of prudence and pictograms of caution

GHS MX labelling

Hazard pictograms (GHS MX) :

GHS07

Signal word (GHS MX) : Warning

Hazard statements (GHS MX) : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statements (GHS MX) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P280 - Wear eye 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.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards which do not contribute in the classification

Adverse physicochemical, human health and environmental effects : Causes skin irritation,Causes serious eye irritation.

SECTION 3: Composition/information on ingredients

3.1. For substances

Not applicable

3.2. For mixes

Name	Product identifier	%	GHS MX classification
Citric acid	(CAS-No.) 77-92-9	40 - 50	Eye Irrit. 2A, H319

Name	Product identifier	%	GHS MX classification
Butanedioic acid, hydroxy-, (.+-.)-	(CAS-No.) 617-48-1	40 - 50	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
adipic acid	(CAS-No.) 124-04-9	1 - 5	Eye Irrit. 2A, H319

SECTION 4: First aid

4.1. Description of first aid

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

4.2. Symptoms and effects more important, acute and chronic

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of the need for medical care and, where appropriate, treatment special

Treat symptomatically.

SECTION 5: Measures against fires

5.1. Suitable extinguishing media

Suitable extinguishing media : Fire-extinguishing activities according to surrounding.

5.2. Specific hazards of the hazardous chemical substances or mixtures

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special measures that should follow the fire fighting groups

Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Measures to be taken in the event of accidental spillage or accidental leakage

6.1. Personal precautions, protective equipment and procedures of emergency

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning of spills or leaks

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions that you should take to ensure a safe operation

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. 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 incompatibility

Storage conditions : Store in a well-ventilated place. Keep cool.

Special rules on packaging : Keep only in original container.

SECTION 8: Controls exposure/personal protection

8.1. Control parameters

adipic acid (124-04-9)			
Mexico	OEL TWA (mg/m³)	5 mg/m³	

8.2. Appropriate, technical controls

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

Environmental exposure controls : Avoid release to the environment.

8.3. Measures of individual protection, such as personal protection, EPP

Hand protection : Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. 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

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
protective gloves	Natural rubber	6 (> 480 minutes)	0,6		EN ISO 374

Eye protection : tightly fitting safety goggles. Eyewash bottle with clean water

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : tablet.

Colour : white

Odour : characteristic

Odour threshold : No data available

pH : 2.5

pH solution : 1 %

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : Not applicable

Boiling point : No data available

Flash point : Not applicable

Flammability (solid, gas) : Non flammable.

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : Not applicable

Density : 800 g/l

Solubility : Soluble in water.

Log Pow : No data available

Log Kow : No data available

Viscosity : No data available

Viscosity, kinematic : Not applicable

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : Not applicable

9.2. Other information

VOC content : < 3 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions that should be avoided

Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information about routes likely to income

Acute toxicity : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

adipic acid (124-04-9)	
LD50 oral rat	> 11000 mg/kg
LC50 inhalation rat (mg/l)	> 7700 mg/m³

Citric acid (77-92-9)	
LD50 oral rat	3000 mg/kg rat
LD50 dermal rat	> 2000 mg/kg bodyweight rat
ATE MX (oral)	3000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.
pH: 2.5
Serious eye damage/irritation : Causes serious eye irritation.
pH: 2.5
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecotoxicological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

adipic acid (124-04-9)	
NOEC chronic crustacea	6.3 mg/l

Citric acid (77-92-9)	
LC50 fish 1	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
EC50 Daphnia 1	120 mg/l (EC50; 72 h)
BCF other aquatic organisms 1	3.2

Citric acid (77-92-9)	
Threshold limit algae 2	640 mg/l (EC0; 168 h)

12.2. Persistence and degradability

Citric acid (77-92-9)	
Biochemical oxygen demand (BOD)	0.42 g O_2/g substance
Chemical oxygen demand (COD)	0.728 g O_2/g substance
ThOD	0.686 g O_2/g substance
BOD (% of ThOD)	0.89

12.3. Bioaccumulative potential

Citric acid (77-92-9)	
BCF other aquatic organisms 1	3.2

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Methods of elimination

Product/Packaging disposal recommendations : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Recycling is preferred to disposal or incineration. Empty remaining contents. Do not re-use empty containers without proper cleaning or reconditioning. Dirty containers cannot be handled as normal waste.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with NOM / UNRTDG / IMDG / IATA

NOM	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

- NOM

No data available

- IMDG

No data available

- IATA

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

Butanedioic acid, hydroxy-, (.+-.)- (617-48-1)
Listed on the Canadian DSL (Domestic Substances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on the United States TSCA (Toxic Substances Control Act) inventory.

adipic acid (124-04-9)
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SECTION 16: Other information including those relating to the preparation and updating of safety data sheets

Date of issue : 26/11/2018

Full text of H-statements:

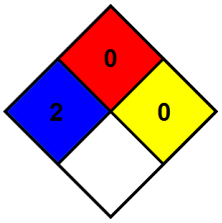
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Abbreviations and acronyms:

IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
DOT	Department of Transport
TDG	Transportation of Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
IARC	International Agency for Research on Cancer
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
CAS	CAS (Chemical Abstracts Service) number
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
ADG	Transport of Australian Dangerous Goods

NFPA (National Fire Protection Association)

NFPA fire hazard	:	0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA health hazard	:	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA reactivity	:	0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health	:	2 Moderate Hazard - Temporary or minor injury may occur
Flammability	:	0 Minimal Hazard - Materials that will not burn

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.