

Rotishine descaler

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Issue date: 04/22/2021 Version: 1.0

SDS No: 11073-0042

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Rotishine descaler

1.2. Recommended use and restrictions on use

Recommended use : Rinse aid and descaler for automatic rinsing and descaling of ovens, For professional use
Restrictions on use : The product should not be used for purposes other than those shown above without first referring to the supplier and obtaining written handling instructions

1.3. Supplier

Supplier

Fri-Jado B.V.
Blauwhekken 2
4751 XD Oud Gastel - Netherlands
T +31 765 0854 00
info@frijado.com

Supplier

Fri-Jado Inc.
1401 Davey Road
Suite 100
Woodridge IL 60517 - USA
T +1 877 374 5236
us.info@frijado.com

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

1.4. Emergency telephone number

Emergency number : +49 621 845799731

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.

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

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.

Precautionary statements (GHS CA) : 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.
P501 - Dispose of contents/container to in accordance with local and national regulations.

Rotishine descaler

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SDS No: 11073-0042

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Mixture of the substances listed below with harmless additives

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Citric acid	-	CAS-No.: 77-92-9	≥ 75 – < 80	Eye Irrit. 2A, H319
Maleic acid	-	CAS-No.: 110-16-7	≥ 15 – < 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

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 or rash 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	: Ingestion is not considered a potential route of exposure.
First-aid measures general	: If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treatment	: Treat symptomatically.
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Rotishine descaler

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SDS No: 11073-0042

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder. Foam. Fire-extinguishing activities according to surrounding.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Strong water jet.

5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : In case of fire and/or explosion do not breathe fumes. Carbon oxides (CO, CO₂).

5.4. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear personal protective equipment. Keep public away from danger area.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Keep in suitable, closed containers for disposal.
Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep container tightly closed. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 : Keep away from food, drink and animal feeding stuffs. Store in a well-ventilated place. Keep cool. Protect from moisture.
Incompatible materials : Strong oxidizing agent. Strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Rotishine descaler

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SDS No: 11073-0042

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

Not required for normal conditions of use

Hand protection:

Not required for normal conditions of use. In case of repeated or prolonged contact wear gloves

Eye protection:

Not required for normal conditions of use. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Not required for normal conditions of use. breathing apparatus needed only when dust is formed

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: tablet.
Color	: white
Odor	: acetic
Odor threshold	: No data available
pH	: ≥ 2.3 (Solution, 1%)
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: $> 100^{\circ}\text{C}$
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: $> 130^{\circ}\text{C}$
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available

Rotishine descaler

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SDS No: 11073-0042

Relative density	: No data available
Density	: 1.15 g/cm ³ (tablet)
Solubility	: Water: Material highly soluble in water
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Explosion limits	: Not applicable

9.2. Other information

VOC content	: 0 %
Percent Solids	: 100 %

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: Strong oxidizing agent. Strong bases.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Maleic acid (110-16-7)

ATE CA (oral)	500 mg/kg body weight
ATE CA (Dermal)	1100 mg/kg body weight

Skin corrosion/irritation	: Causes skin irritation. pH: ≥ 2.3 (Solution, 1%)
Serious eye damage/irritation	: Causes serious eye irritation. pH: ≥ 2.3 (Solution, 1%)
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

Maleic acid (110-16-7)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Rotishine descaler

Viscosity, kinematic	Not applicable
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Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

Rotishine descaler

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SDS No: 11073-0042

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

Rotishine descaler

Persistence and degradability	No data available.
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12.3. Bioaccumulative potential

Rotishine descaler

Bioaccumulative potential	No data available.
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12.4. Mobility in soil

Rotishine descaler

Ecology - soil	No data available.
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12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : slightly hazardous to water.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not applicable

Proper Shipping Name (DOT) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : Not applicable

Rotishine descaler

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SDS No: 11073-0042

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (TDG) : Not applicable

Packing group (DOT) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG

No data available

DOT

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

15.1. National regulations

Citric acid (77-92-9)

Listed on the Canadian DSL (Domestic Substances List)

Rotishine descaler

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SDS No: 11073-0042

Maleic acid (110-16-7)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Citric acid (77-92-9)

Listed on the AICS (Australian Inventory of Chemical Substances)
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 KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

Maleic acid (110-16-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor

: None

Issue date

: 04/22/2021

Full text of H-phrases:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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.