

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Care tabs

Article No.

56.00.562; 56.01.527; 56.01.529

UFI code

R5YU-WMOD-PR18-HMMV

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

Relevant identified uses

RATIONAL care tabs for all iHexagon, iCombi Pro, iCombi Classic and SelfCookingCenter® 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

RATIONAL AG

Address

Siegfried-Meister-Straße 1
86899 Landsberg am Lech
Germany

Telephone

+49 8191 327 387

Email

reinigung@rational-online.com

Fax

+49 8191 327 231

Web site

www.rational-online.com

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

Importer

RATIONAL UK Ltd.

Address

Titan Court, Unit 4
Laporte Way, Portenway Business Parks
LU 4 8EF Luton, Bedfordshire
United Kingdom

Telephone

+44 1582 48 03 88

1.4. Emergency telephone number

Emergency CONTACT (24-Hour-Hotline): +49 6132 844 63

Available outside office hours

Yes

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.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

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.

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 - -	-

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
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Care tabs

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.

Inhalation

Not applicable.

Skin contact

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.

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.

Inhalation

Not applicable.

Skin contact

Causes severe skin burns.

Eye contact

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.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

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.

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.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

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

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	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

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
DL-malic acid	PNEC	Freshwater	0.1 mg/l

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
(617-48-1/210-514-9)			
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/l
adipic acid (124-04-9/204-673-3)	PNEC	Marine water	12.6 µg/l
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.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

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

Odour

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.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

Flash point

No data available

Auto-ignition temperature

Not applicable.

Decomposition temperature

No information available.

pH

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.

Relative vapour density

Not applicable.

Evaporation Rate

Not applicable.

Explosive properties

The product / mixture has no explosive properties.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

Oxidising properties

The product / mixture has no oxidizing properties.

VOC %

< 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.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

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.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

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

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

Aspiration hazard

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

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

Toxicity

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

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

Acute crustacean 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	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	ECHA

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

Mobility

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.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

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.

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)

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



8

ADR / RID Class

8

ADR / RID Classification code

C4

ADR / RID hazard identification number

80

IMDG Class

8

IATA Class

8

ADN Class

8

ADN Class Code

C4

14.4. Packing group

II

14.5. Environmental hazards

Environmental hazards

No

IMDG Marine Pollutant

No

14.6. Special precautions for user

IMDG EmS

F-A,S-B

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

Other

Additional information ADR-RID

LQ: 1 kg

EQ: E1

Transport category (tunnel restriction code): 2 (E)

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.

UK REACH : REACH Regulations (S.I. 2019/758) as amended

UK CLP : Classification, Labelling and Packaging of Chemicals Regulations (S.I. 2015/21) as amended

UK COMAH : Control of Major Accident Hazards Regulations (S.I. 2015/483) as amended

Management of Health and Safety at Work Regulations (S.I. 1999/3242) as amended (requirements relating to the protection of young people and new and expectant mothers at work)

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

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 Importer SECTION : 1.3

Addition Suitable material: SECTION : 8.2

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)

SAFETY DATA SHEET

Version number: 9.1
Issued: 2024-11-22
Replaces SDS: 2023-12-25

according to Regulation (EC) No. 1907/2006
(REACH), as retained and amended in UK law



Care tabs

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.

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.