

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Rely+On PeraSafe

Version 1.0 Revision Date: 15.05.2018 SDS Number: 103000008398 Date of last issue: -
Country / Language: GB / EN(GB)

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

1.1 Product identifier

Trade name : Rely+On PeraSafe
Product code : 57783905

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

Use of the Substance/Mixture : Industrial, Professional, Disinfectants

1.3 Details of the supplier of the safety data sheet

Supplier : LANXESS Deutschland GmbH
Production, Technology,
Safety & Environment
51369 Leverkusen, Germany
Telephone : +4922188852288
E-mail address of person responsible for the SDS : infosds@lanxess.com

1.4 Emergency telephone number

0870 190 6777. National Chemical Emergency Centre

SECTION 2: Hazards identification


2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Self-reactive substances and mixtures, Type E H242: Heating may cause a fire.
Acute toxicity, Category 4 H302: Harmful if swallowed.
Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 
Signal word : Danger
Hazard statements : H242 Heating may cause a fire.

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H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautionary statements :

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P235 Keep cool.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 Store in a well-ventilated place.
P420 Store separately.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

disodium carbonate, compound with hydrogen peroxide (2:3)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4 239-707-6	Ox. Sol. 3; H272 Acute Tox. 4; H302 Eye Dam. 1; H318	>= 30 - < 50
citric acid	77-92-9 201-069-1 01-2119457026-42	Eye Irrit. 2; H319	>= 10 - < 20

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sodium carbonate	497-19-8 207-838-8 011-005-00-2 01-2119485498-19	Eye Irrit. 2; H319	>= 1 - < 10
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No special measures required.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.

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5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Metal oxides
Nitrogen oxides (NO_x)
Sulphur oxides

5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Remove all sources of ignition.

6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

- For personal protection see section 8.
For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Protect from moisture.
- Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Protect from moisture. Keep away from: Combustible substances Never allow product to get in contact with water during storage
- Store in cool place. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Recommended storage temperature : < 25 °C
- Dampness : Keep in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

This information is not available.

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Personal protective equipment

Eye protection : Tightly fitting safety goggles

Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material : Nitrile rubber - NBR
Wearing time : < 60 min

Material : Polychloroprene - CR
Wearing time : < 60 min

Material : Fluorinated rubber - FKM
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Wear suitable protective clothing.

Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : Recommended Filter type:
P1 filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : light cream

Odour : characteristic

Odour Threshold : No data available

pH : 7,9
Concentration: 0,162 %

Melting point/freezing point : No data available

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Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0,89 g/cm ³ (20 °C)
Solubility(ies)	:	
Water solubility	:	30 g/l
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	The product is a self-reactive substance or mixture classified as type E.
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Self-Accelerating decomposition temperature (SADT)	:	60 °C
Minimum explosible dust concentration	:	In the case of dusty organic products the possibility of a dust explosion should always be considered.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

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10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions may include the following:
temperature increase
high temperature
Reactions may include the following:
hazardous decomposition
risk of causing fire
Dust may form explosive mixture in air., Contact with water liberates hydrogen peroxide and peracetic acid., Self-accelerating decomposition may occur at elevated temperatures.
No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Exposure to moisture

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases
Powdered metal salts
Reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NOx)
Sulphur oxides
Carbon oxides
Other decomposition products
hydrogen peroxide
peracetic acid
acetic acid
Oxygen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD0 (Rat): 500 mg/kg
Method: OECD Test Guideline 420

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Acute toxicity estimate: 1.899 mg/kg
Method: Calculation method

Components:

disodium carbonate, compound with hydrogen peroxide (2:3):

Acute oral toxicity : LD50 (Rat, female): 893 mg/kg
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg
GLP: yes
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

citric acid:

Acute oral toxicity : LD50 (Rat): 11.700 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

sodium carbonate:

Acute oral toxicity : LD50 (Rat): 2.800 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Skin corrosion/irritation

Components:

disodium carbonate, compound with hydrogen peroxide (2:3):

Species: Rabbit
Result: No skin irritation
Remarks: Non-irritating (Rabbit)

citric acid:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: slightly irritant
Based on available data, the classification criteria are not met.

sodium carbonate:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

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Serious eye damage/eye irritation

Components:

disodium carbonate, compound with hydrogen peroxide (2:3):

Species: Rabbit

Result: Risk of serious damage to eyes.

citric acid:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritating to eyes.

sodium carbonate:

Species: Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitisation

Components:

disodium carbonate, compound with hydrogen peroxide (2:3):

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

Germ cell mutagenicity

Components:

citric acid:

Genotoxicity in vitro : Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test system: Human lymphocytes
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 487
Result: positive

Genotoxicity in vivo : Species: Rat (male and female)
Application Route: Oral
Method: Regulation (EC) No. 440/2008, Annex, B.22
Result: negative

Species: Rat (male)
Application Route: Oral
Method: OECD Test Guideline 475

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Result: negative

Reproductive toxicity

Components:

citric acid:

Effects on foetal development : Species: Rat, female
Duration of Single Treatment: 15 d
Teratogenicity: NOAEL: > 295 mg/kg body weight
Result: No teratogenic potential

Species: Rabbit, female
Duration of Single Treatment: 15 d
Teratogenicity: NOAEL: > 425 mg/kg body weight
Result: No teratogenic potential

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

disodium carbonate, compound with hydrogen peroxide (2:3):

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 70,7 mg/l
Exposure time: 96 h
GLP: no
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 4,9 mg/l
Exposure time: 48 h
GLP: no
Remarks: Fresh water

citric acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.516 mg/l
Exposure time: 96 h
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.535 mg/l
Exposure time: 24 h

Toxicity to algae : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l
Exposure time: 8 Days

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Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10.000 mg/l
Exposure time: 16 h

sodium carbonate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (Water flea)): 220 - 227 mg/l
Exposure time: 48 h

12.2 Persistence and degradability

Components:

disodium carbonate, compound with hydrogen peroxide (2:3):

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

citric acid:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 97 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

sodium carbonate:

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Components:

citric acid:

Partition coefficient: n-octanol/water : log Pow: -1,64
Method: measured

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

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12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADR : UN 3228
RID : UN 3228
IMDG : UN 3228
IATA : UN 3228

14.2 UN proper shipping name

ADR : SELF-REACTIVE SOLID TYPE E
(SODIUM PERCARBONATE)
RID : SELF-REACTIVE SOLID TYPE E
(SODIUM PERCARBONATE)
IMDG : SELF-REACTIVE SOLID TYPE E
(SODIUM PERCARBONATE)
IATA : Self-reactive solid type E
(SODIUM PERCARBONATE)

14.3 Transport hazard class(es)

ADR : 4.1
RID : 4.1
IMDG : 4.1

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IATA : 4.1

14.4 Packing group

ADR

Packing group : Not assigned by regulation
Classification Code : SR1
Labels : 4.1



Tunnel restriction code : D

RID

Packing group : Not assigned by regulation
Classification Code : SR1
Hazard Identification Number : 40
Labels : 4.1



IMDG

Packing group : Not assigned by regulation
Labels : 4.1



IATA (Cargo)

Packing instruction (cargo aircraft) : 459: 10,00 KG
Packing group : Not assigned by regulation
Labels : 4.1



IATA (Passenger)

Packing instruction (passenger aircraft) : 459: 5,00 KG
Packing group : Not assigned by regulation
Labels : 4.1

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14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA (Passenger)

Environmentally hazardous : no

IATA (Cargo)

Environmentally hazardous : no

14.6 Special precautions for user / Additional advice

Hazard statements : Combustible.
Keep dry.
Risk of serious damage to eyes.
Stow at a cool place, susceptible to heat.
Keep separated from foodstuffs.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	Quantity 1 50 t	Quantity 2 200 t
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15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

Full text of H-Statements

H272	:	May intensify fire; oxidizer.
H302	:	Harmful if swallowed.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Ox. Sol.	:	Oxidizing solids

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Further information

Classification of the mixture:

Self-react. E	H242
Acute Tox. 4	H302
Eye Dam. 1	H318

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.