

1. Product and Company Identification

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Product Name Calcium Pantothenate IP
Part Number RXSOL-19-3219-025

Company Details:....

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Substances

Synonyms Calcium D-pantothenate
Vitamin B5
D-Pantothenic acid hemi calcium salt
Formula $C_9H_{16}NO_5 \cdot 0.5Ca$
Molecular weight 238,27 g/mol
CAS-No 137-08-6
EC-No. 205-278-9

No components need to be disclosed according to the applicable regulations.

3. Hazards Identification

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Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
Label elements Not a hazardous substance or mixture.
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.

4. First Aid Measures

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Description of first aid measures

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact Wash off with soap and plenty of water
In case of eye contact Flush eyes with water as a precaution.
If swallowed Never give anything by mouth to an unconscious person. Rinse mouth

Most important symptoms and effects, both acute and delayed	with water. The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures www.rxmarine.com

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

Special hazards arising from the substance or mixture

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
For this substance/mixture no limitations of extinguishing agents are given.

Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.

In a fire or if heated, a pressure increase will occur and the container may burst, with the

risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along

the ground. Vapors may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

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Carbon oxides

Nitrogen oxides (NOx)

Calcium oxide

Advice for firefighters

Further information

Wear self-contained breathing apparatus for firefighting if necessary.

No data available

spray to keep fire-exposed containers cool.Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions

For personal protection see section 8.

Methods and materials for containment and cleaning up

No special environmental precautions required.

Reference to other sections

Sweep up and shovel. Keep in suitable, closed containers for disposal.

For disposal see section 13.

7. Handling and Storage

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Precautions for safe handling

Advice on protection against fire and explosion

Hygiene measures

Provide appropriate exhaust ventilation at places where dust is formed.

General industrial hygiene practice.

Conditions for safe storage, including any incompatibilities

For precautions see section 2.2.

Recommended storage temperature see product label.Tightly closed.

Storage conditions

Recommended storage temperature see product label.

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage stability

Recommended storage temperature

Storage class

2 - 8 °C

Storage class (TRGS 510): 13: Non Combustible Solids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

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Control parameters

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet,

supplied by us and for the designated use. When dissolving in or mixing with other

substances and under conditions deviating from those stated in EN374 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

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substances and under conditions deviating from those stated in EN374 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9. Physical and chemical properties

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Information on basic physical and chemical properties

Physical state

Powder, crystalline

Color

White

Odor	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	6,8 - 7,2
Viscosity	Viscosity, kinematic: No data available
	Viscosity, dynamic: No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density	No data available
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	No data available

10. Stability and reactivity

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Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

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Information on toxicological effects

Acute toxicity	LD50 Oral - Rat - > 5.000 mg/kg
	Remarks: (External MSDS)
	LC50 Inhalation - Rat - 4 h - > 5,2 mg/l - dust/mist
	(OECD Test Guideline 403)
	Dermal: No data available
Skin corrosion/irritation	Skin - Rabbit
	Result: No skin irritation
	(Draize Test)
	Remarks: (External MSDS)
Serious eye damage/eye irritation	Eyes - Rabbit
	Result: No eye irritation

Respiratory or skin sensitization	Remarks: (External MSDS) Maximization Test - Guinea pig Result: negative
Germ cell mutagenicity	Remarks: (External MSDS) No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: RU4375000
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

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Toxicity	
Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - > 10.000 mg/l - 96 h (DIN 38412)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia - > 580 mg/l - 48 h (DIN 38412)
Toxicity to bacteria	EC50 - Pseudomonas putida - > 10.000 mg/l - 17 h (DIN 38421 TEIL 8)
Toxicity to algae	IC50 - algae - > 500 mg/l - 72 h (DIN 38412)
Persistence and degradability	
Biodegradability	Result: > 60 % - Readily biodegradable. (OECD Test Guideline 301C)
Biochemical Oxygen Demand (BOD)	20 mg/g
Chemical Oxygen Demand (COD)	Remarks: (External MSDS) 1.070 mg/g
Bioaccumulative potential	Remarks: (External MSDS) No data available
Mobility in soil	No data available
Results of PBT and vPvB 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.
Endocrine disrupting properties	No data available
Other adverse effects	
Additional ecological information	Discharge into the environment must be avoided.

13. Disposal considerations

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Waste treatment Method	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. Transport information

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UN number	ADR/RID: IMDG: IATA:
UN proper shipping name	ADR/RID: Not dangerous goods

Transport hazard class(es)
Packaging group
Environmental hazards
Special precautions for user
Further information

IMDG: Not dangerous goods
IATA: Not dangerous goods
ADR/RID: IMDG: IATA:
ADR/RID: IMDG: IATA:
ADR/RID: no IMDG Marine pollutant: no IATA: no

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

For this product a chemical safety assessment was not carried out

16. Other information

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Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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