

SAFETY DATA SHEET

NOVADAN®

Lime Powder 373

NOVADAN®

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 08.03.2013

Revision date 10.08.2021

1.1. Product identifier

Product name Lime Powder 373

UFI RPC1-Y09G-M00S-KYRV

Article no. 31124, 41335

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

Product group Descaler for coffee machines.

Main intended use PC-CLN-4 Descaling products

Relevant identified uses
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
PC35 Washing and cleaning products (including solvent based products)
PROC2 Use in closed, continuous process with occasional controlled exposure
ERC8A Wide dispersive indoor use of processing aids in open systems

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet**Producer**

Company name Novadan ApS

Postal address Platinvej 21

Postcode DK-6000

City Kolding

Country Danmark

Telephone number + 45 76 34 84 00

Fax + 45 75 50 43 70

Email sds@novadan.dk

Website	www.novadan.dk
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1.4. Emergency telephone number

Emergency telephone	Description: UK: NHS: 111 EI: National Poisons Information Centre, 24/7: 01 809 2166
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Irrit. 2; H315; Calculation method Eye Irrit. 2; H319; Calculation method Aquatic Chronic 3; H412; Calculation method
Additional information on classification	The informations stated in this MSDS, applies for the concentrated product. See Sec. 16, for informations regarding recommended user solutions

2.2. Label elements

Hazard pictograms (CLP)



Signal word	Warning
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention. P273 Avoid release to the environment.

2.3. Other hazards

Health effect	Causes serious eye irritation. Causes skin irritation. See section 11 for additional information on health hazards.
Environmental effects	May cause long lasting harmful effects to aquatic life. This product does not contain any PBT or vPvB substances.
Other hazards	No evidence for endocrine disrupting properties.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Sulphamidic acid	CAS No.: 5329-14-6 EC No.: 226-218-8 Index No.: 016-026-00-0 REACH Reg. No.:	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	60 – 100 %	

02-2119675334-35-XXXX

Substance comments	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents: <5%: zeolite The full text for all hazard statements is displayed in section 16.
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SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Fresh air. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.
Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	Eye contact may cause: May irritate and cause redness and pain. Irritating to skin.
Delayed symptoms and effects	No known long term effects.

4.3. Indication of any immediate medical attention and special treatment needed

Other information	If unconscious: Call an ambulance/physician immediately. Show this Safety Data Sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable. During fire, gases hazardous to health may be formed.
Hazardous combustion products	Toxic gases/vapours/fumes of: Nitrous gases (NOx).

5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
Fire fighting procedures	Reference is made to the company fire procedure. If risk of water pollution

occurs, notify appropriate authorities. Avoid breathing fire vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures

Avoid inhalation of dust or aerosols and contact with skin and eyes. Wear necessary protective equipment. For personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary measures

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method

Collect spillage with shovel, broom or the like. Wash contaminated area with water.

6.4. Reference to other sections

Other instructions

See section 8 and section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Avoid spilling, skin and eye contact. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible.

Protective safety measures

Advice on general occupational hygiene

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.
Eating, smoking and water fountains prohibited in immediate work area.
Take off contaminated clothing and personal protective equipment before entering an eating area..

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in tightly closed original container. Keep away from food, drink and animal feeding stuffs. Water reactive storage. Store separated from: Chlorine Alkalis. Store the product away from direct sunlight in opaque containers.

Conditions for safe storage

Storage temperature

Value: -20 – 35 °C

Storage stability

Durability: 36 months.

7.3. Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters comments

No data recorded.

DNEL / PNEC

Substance

Sulphamidic acid

DNEL

Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 5 mg/kg bw/day

Group: Professional

Route of exposure: Long-term dermal (systemic)

Value: 10 mg/kg bw/day

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 70,5 mg/m³

Group: Consumer

Route of exposure: Long-term dermal (systemic)

Value: 5 mg/kg bw/day

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 17,4 mg/m³

PNEC

Route of exposure: Saltwater

Value: 0,18 mg/l

Route of exposure: Sewage treatment plant STP

Value: 20 mg/l

Route of exposure: Freshwater sediments

Value: 8,36 mg/kg dw

Route of exposure: Saltwater sediments

Value: 0,84 mg/kg dw

Route of exposure: Soil

Value: 5 mg/kg dw

Route of exposure: Freshwater

Value: 1,8 mg/l

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Technical measures to prevent exposure

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye / face protection

Suitable eye protection

Wear dust resistant safety goggles where there is danger of eye contact. EN 166.

Hand protection

Skin- / hand protection, long term contact

Use protective gloves made of:
Butyl rubber. $\geq 0,5$ mm
Neoprene. $\geq 0,5$ mm
Nitrile. $\geq 0,4$ mm
EN 374.

Breakthrough time

Value: ≥ 480 minute(s)

Hand protection, comments

Manufacturer's directions for use should be observed because of great diversity of types.
The recommendation is a qualified estimate based on knowledge of the components.

Skin protection

Additional skin protection measures

No special precautions.

Respiratory protection

Respiratory protection necessary at

Under normal conditions of use respiration protection should not be required.

Thermal hazards

Thermal hazards

See section 5.

Appropriate environmental exposure control

Environmental exposure controls

See section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Powder, dust.

Colour

White.

Odour

None.

Odour limit

Comments: Not relevant.

pH

Status: In delivery state

Comments: Not relevant.

Status: In aqueous solution

Value: $\sim 1,5$

	Comments: 1%
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not relevant.
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not relevant.
Flammability	Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Vapour density	Comments: Not relevant.
Bulk density	Value: ~ 1,20 kg/l.
Solubility	Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not relevant.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Comments: Not relevant.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

9.2.2. Other safety characteristics

Comments	No data recorded.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Liberates toxic gases when mixed with chlorine containing products. Reacts with alkalis and generates heat. Risk of bumping (splashes).
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10.4. Conditions to avoid

Conditions to avoid	Water, moisture, acids and heating.
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10.5. Incompatible materials

Materials to avoid

Alkali-sensitive metals such as aluminium, tin, lead and zinc and alloys with these metals.

10.6. Hazardous decomposition products

Hazardous decomposition products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance

Sulphamidic acid

Acute toxicity

Effect tested: LD50**Route of exposure:** Oral**Value:** 2140 mg/kg bw**Animal test species:** Rat**Effect tested:** LD50**Route of exposure:** Dermal**Value:** > 2000 mg/kg bw

Other toxicological data

Toxicological tests on the product has not been performed.

Other information regarding health hazards

Assessment of acute toxicity, classification

No evidence for acute toxicity.

Inhalation

Dust may irritate respiratory system or lungs.

Skin contact

Prolonged or repeated exposure may cause severe irritation.

Eye contact

Particles in the eyes may cause irritation and smarting.

Ingestion

Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea.

Sensitisation

No evidence for respiratory nor skin sensitization.

Assessment of germ cell mutagenicity, classification

No evidence for germ cell mutagenicity.

Assessment of carcinogenicity, classification

No evidence for carcinogenicity.

Assessment of reproductive toxicity, classification

No evidence for reproductive toxicity.

Assessment of specific target organ toxicity - single exposure, classification

No evidence for STOT-single exposure.

Assessment of specific target organ toxicity - repeated exposure, classification

No evidence for STOT-repeated exposure.

Assessment of aspiration hazard, classification

No evidence for aspiration hazard.

Symptoms of exposure

Symptoms of overexposure No specific symptoms noted.

11.2 Other information

Endocrine disruption No evidence for endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Substance Sulphamidic acid

Aquatic toxicity, fish **Value:** 70,3 mg/l
Test duration: 96 hour(s)
Species: Pimephales promelas
Method: LC50

Substance Sulphamidic acid

Aquatic toxicity, algae **Value:** 48 mg/l
Test duration: 72 hour(s)
Species: Desmodesmus subspicatus
Method: ErC 50

Substance Sulphamidic acid

Aquatic toxicity, crustacean **Value:** 71,6 mg/l
Test duration: 48 hour(s)
Species: Daphnia magna
Method: EC50

Ecotoxicity The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation The product solely consists of inorganic compounds which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product is miscible with water. May spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

Endocrine disrupting properties No evidence for endocrine disrupting properties.

12.7. Other adverse effects

Additional ecological information	Product is harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.
Appropriate methods of disposal for the contaminated packaging	Dispose unused product and the packaging in accordance with local requirements. Empty containers are rinsed with plenty of water and disposed to normal or commercial waste.
EWC waste code	EWC waste code: 060106 other acids Classified as hazardous waste: Yes
EWL packing	EWC waste code: 060106 other acids Classified as hazardous waste: Yes
Other information	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants in pure form.

SECTION 14: Transport information

Dangerous goods	Yes
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14.1. UN number

ADR/RID/ADN	2967
IMDG	2967
ICAO/IATA	2967

14.2. UN proper shipping name

ADR/RID/ADN	SULPHAMIC ACID
IMDG	SULPHAMIC ACID
ICAO/IATA	SULPHAMIC ACID

14.3. Transport hazard class(es)

ADR/RID/ADN	8
IMDG	8
ICAO/IATA	8

14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

IMDG Marine pollutant

Nej.

14.6. Special precautions for user

Special safety precautions for user Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

ADR/RID Other information

Hazard No.

80

IMDG Other information

EmS

F-A, S-B

SECTION 15: Regulatory information

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

Other label information

For professional users only.

Legislation and regulations

The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

15.2. Chemical safety assessment

Chemical safety assessment performed

No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Training advice

No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

Information added, deleted or revised

Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.

Version

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Prepared by

ALM