

SAFETY DATA SHEET**NOVADAN®****Novaclean****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 02.01.2012

Revision date 07.08.2019

1.1. Product identifier

Product name Novaclean

Article no. 12431, 41124, 41125, 41126, 41165, 59203

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

Product group Alkaline heavy-duty cleaner.

Relevant identified uses

- SU1 Agriculture, forestry, fishery
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU4 Manufacture of food products
- SU20 Health services
- SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
- PC35 Washing and cleaning products (including solvent based products)
- PROC10 Roller application or brushing
- ERC8A Wide dispersive indoor use of processing aids in open systems
- ERC8D Wide dispersive outdoor 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

Manufacturer

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

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 Corr. 1B; H314 Eye Dam. 1; H318
Substance / mixture hazardous properties	For further information, please refer to section 11.
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)



Composition on the label	Disodium metasilicate, pentahydrate
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
Precautionary statements	P261 Avoid breathing spray/mist. P280 Wear protective gloves / protective clothing / eye protection / face protection. P303+P361+P353 IF ON SKIN (or hair): Remove / 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 or doctor / physician.

2.3. Other hazards

Health effect	Corrosive to skin and eyes. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. See section 11 for additional information on health hazards.
Environmental effects	Substantial amounts of the product may lead to a local change in acidity in small water systems which may have adverse effects on aquatic organisms. This product does not contain any PBT or vPvB substances.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Alkyl imidazolinium carboxylate	CAS No.: 68604-71-7 EC No.: 271-704-5 REACH Reg. No.: 02-2119666538-24-xxxx	Eye Irrit. 2; H319	1 - 5 %	
Disodium metasilicate, pentahydrate	CAS No.: 10213-79-3 EC No.: 229-912-9 REACH Reg. No.: 01-2119449811-37-xxxx	Skin Corr. 1B; H314 Eye Dam. 1; H318 Met. Corr. 1; H290 STOT SE 3; H335	1 - 5 %	
Alcohols C9-11-iso-, C10-rich, ethoxylated	CAS No.: 78330-20-8	Eye Dam. 1; H318 Acute Tox. 4; H302 Additional information on classification: SCL: ≤10% Eye Irr.2 >10% Eye Dam.1	1 - 5 %	

Substance comments

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents:
5-15%: nonionic surfactant
<5%: phosphates .
The full text for all hazard statements is displayed in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Do not give victim anything to drink if he is unconscious.
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	Strongly corrosive. May cause deep tissue damage. Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.
Delayed symptoms and effects	The etching penetrates deeply into the tissue and is first noticed after a while.

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

Other information

In case of unconsciousness, ingestion or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

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. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

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

Look out! The product is corrosive. Use protective gloves, goggles and suitable protective clothing. In case of inadequate ventilation use suitable respirator. For personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary measures

Avoid discharge into water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method

Dam and absorb spillage with sand, sawdust or other absorbent. Smaller quantities of residue may be collected by an absorbent. 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. Do not mix with acidic products. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible.

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. Store protected from acids.

Conditions for safe storage

Storage temperature

Value: -5 -25 °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

Substance	Identification	Exposure limits	TWA Year
Alkyl imidazolinium carboxylate	CAS No.: 68604-71-7		
Disodium metasilicate, pentahydrate	CAS No.: 10213-79-3		
Alcohols C9-11-iso-, C10-rich, ethoxylated	CAS No.: 78330-20-8		

DNEL / PNEC

Substance

Disodium metasilicate, pentahydrate

DNEL

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 6,22 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 1,55 mg/m³

Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 0,74 mg/kg bw/d

Group: Professional

Route of exposure: Long-term dermal (systemic)

Value: 1,49 mg/kg bw/d

Group: Consumer

Route of exposure: Long-term dermal (systemic)

Value: 0,74 mg/kg bw/d

PNEC

Route of exposure: Freshwater

Value: 7,5 mg/l

Route of exposure: Saltwater

Value: 1 mg/l

Route of exposure: Water

Value: 7,5 mg/l

Route of exposure: Sewage treatment plant STP

Value: 1000 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. An eye wash bottle must be available at the work site.

Eye / face protection

Suitable eye protection

Wear approved safety goggles. EN 166.

Hand protection

Skin- / hand protection, long term contact

Use protective gloves made of: Nitrile. Neoprene. Butyl rubber. EN 374.

Hand protection, comments

Breakthrough time for nitrile rubber, neoprene and butyl rubber is approx. 3 hours. The recommendation is a qualified estimate based on knowledge of the components. Elastic gloves stretch when used as glove thickness and thus the breakthrough time reduced. The EN 374-3 standard test is performed at 23°C, but the practical temperature of the glove is approx. 35°C. The breakthrough time of the different glove guides, is therefor reduced by a factor 3.

Skin protection

Additional skin protection measures

Wear apron or protective clothing in case of splashes. Wear rubber footwear.

Respiratory protection

Respiratory protection necessary at

Under normal conditions of use respiration protection should not be required. In case of inadequate ventilation use suitable respirator. Use respiratory equipment with particle filter, type P2. EN 143/EN149.

Thermal hazards

Thermal hazards

None specific.

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	Fluid.
Colour	Yellowish.
Odour	No characteristic odour.
pH	Status: In delivery state Value: ~ 13,0 Status: In aqueous solution Value: ~ 11,0 Comments: 15°dH Concentration: 2 % Status: In aqueous solution Value: 11,5 Comments: 15°dH Concentration: 4 %
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not relevant.
Evaporation rate	Comments: Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Bulk density	Value: ~ 1,05 kg/l
Solubility	Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Value: < 50 mPas
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Other physical and chemical properties

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	Reacts violently with strong acids. Risk of bumping (splashes).
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10.4. Conditions to avoid

Conditions to avoid	Heating. Extremes of temperatures. Avoid contact with acids.
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10.5. Incompatible materials

Materials to avoid	Strong acids. Acids, oxidising. Alkali-sensitive metals such as aluminium, tin, lead and zinc and alloys with these metals.
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10.6. Hazardous decomposition products

Hazardous decomposition products	In case of fire, toxic gases (CO, CO ₂ , NO _x) may be formed.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance	Disodium metasilicate, pentahydrate
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Acute toxicity	Effect tested: LD50 Route of exposure: Oral Value: 1152 -1349 mg/kg Animal test species: Rat Effect tested: LC50 Route of exposure: Inhalation. Value: > 2,06 g/m ³ Animal test species: Rat
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Acute toxicity	Effect tested: LD50 Route of exposure: Dermal Value: > 5000 mg/kg
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Substance	Alcohols C9-11-iso-, C10-rich, ethoxylated
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Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 500-2000 mg/kg Animal test species: Rat Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 4000 mg/kg
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Animal test species: Rat

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

Aerosols may be corrosive. Inhalation may cause: Serious damage to the lining of nose, throat and lungs.

Skin contact

Strongly corrosive. May cause deep tissue damage.

Eye contact

Strongly corrosive. Causes severe burns. Immediate first aid is imperative. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY.

Ingestion

Strongly corrosive. Even small amounts may be fatal. Symptoms are severe burning pains in mouth, throat and stomach.

Sensitisation

No evidence for respiratory nor skin sensitization.

Mutagenicity

No evidence for germ cell mutagenicity.

Carcinogenicity, other information

No evidence for carcinogenicity.

Reproductive toxicity

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.

SECTION 12: Ecological information**12.1. Toxicity**

Substance

Disodium metasilicate, pentahydrate

Aquatic toxicity, fish

Toxicity type: Acute
Value: 210 mg/l
Test duration: 96 hour(s)
Species: Brachydanio rerio

Substance

Alcohols C9-11-iso-, C10-rich, ethoxylated

Aquatic toxicity, fish

Value: 100 mg/l
Test duration: 96h
Species: Leuciscus idus
Method: LC50

Substance

Alcohols C9-11-iso-, C10-rich, ethoxylated

Aquatic toxicity, algae

Value: 10 - 100 mg/l
Test duration: 72h
Method: EC50

Substance	Disodium metasilicate, pentahydrate
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 1700 mg/l Test duration: 48 hour(s) Species: Daphnia magna Method: EC50
Substance	Alcohols C9-11-iso-, C10-rich, ethoxylated
Aquatic toxicity, crustacean	Value: 10 - 100 mg/l Test duration: 48h Method: EC50
Ecotoxicity	Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.
Aquatic, comments	No data available for the product.

12.2. Persistence and degradability

Persistence and degradability, comments	The product is easily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulating.
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12.4. Mobility in soil

Mobility	The product is water soluble and may spread in water systems.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Other adverse effects

Environmental details, summation	For this product no classification is required for environmental hazards.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	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. -
EWC waste code	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes
EWL packing	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics 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 No

14.1. UN number

ADR/RID/ADN 1719

IMDG 1719

ICAO/IATA 1719

14.2. UN proper shipping name

Proper shipping name English CAUSTIC ALKALI LIQUID, N.O.S.

ADR/RID/ADN

ADR/RID/ADN CAUSTIC ALKALI LIQUID, N.O.S.

Technical name/danger releasing substance ADR/RID/ADN Dinatriumtrioxosilicat

IMDG CAUSTIC ALKALI LIQUID, N.O.S.

Technical name/danger releasing substance IMDG Disodium Trioxosilicate

ICAO/IATA CAUSTIC ALKALI LIQUID, N.O.S.

Technical name/danger releasing substance ICAO/IATA Disodium Trioxosilicate

14.3. Transport hazard class(es)

ADR/RID/ADN 8

Classification code ADR/RID/ADN C5

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 No

14.6. Special precautions for user

Special safety precautions for user Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

Product name	CAUSTIC ALKALI LIQUID, N.O.S.
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Additional information

Hazard label ADR/RID/ADN	8
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Hazard label IMDG	8
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Hazard label ICAO/IATA	8
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Additional information	Not relevant.
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ADR/RID Other information

Tunnel restriction code	E
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Transport category	3
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Hazard No.	80
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Other applicable information ADR/ RID	80
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IMDG Other information

EmS	F-A, S-B
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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. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
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Legislation and regulations	<p>The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments.</p> <p>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.</p> <p>The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).</p> <p>REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.</p> <p>REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.</p>
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Declaration No.	829469
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15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
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.
Additional information	READY-TO-USE MIXTURE: 1-3% Does not require a hazard warning label. READY-TO-USE MIXTURE: 4% H314 Causes severe skin burns and eye damage.
Information added, deleted or revised	Change to Sections: 1, 3, 16
Version	7
Prepared by	ALM