



# SAFETY DATA SHEET

## Novaclean



SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 02.01.2012

Revision date 05.02.2014

#### 1.1. Product identifier

Product name Novaclean

Article no. 12224, 12431, 41124, 41125, 41126, 41165, 59202, 59203

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

Product group Alkaline heavy-duty cleaner.

Use of the substance/preparation 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

Company name Novadan ApS

Postal address Platinvej 21

Postcode DK-6000

City Kolding

Country Danmark

Tel + 45 76 34 84 00

Fax + 45 75 50 43 70

E-mail sds@novadan.dk

Website <http://www.novadan.dk>

#### 1.4. Emergency telephone number

Emergency telephone Link to national poison centers:[http://echa.europa.eu/help/nationalhelp\\_contact\\_en.asp](http://echa.europa.eu/help/nationalhelp_contact_en.asp):

### SECTION 2: Hazards identification

#### 2.1. Classification of substance or mixture

Classification according to C; R34  
67/548/EEC or 1999/45/EC

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Skin Corr 1B;H314;
Substance / mixture hazardous properties	For further information, please refer to section 11.

## 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	<p>P261 Avoid breathing spray/mist.</p> <p>P280 Wear eye protection/protective gloves.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p>

## 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
Alkyl imidazolinium carboxylat	CAS no.: 68604-71-7 EC no.: 271-704-5 Registration number: 02-2119666538-24-xxxx	Xi; R36 Eye Irrit. 2; H319;	1 - 5 %
Disodium metasilicate, pentahydrate	CAS no.: 10213-79-3 EC no.: 229-912-9 Registration number: 01-2119449811-37-xxxx	C, Xi; R34, R37 Skin Corr 1B; H314 Eye Dam. 1; H318 Met. Corr. 1; H290 STOT SE3; H335	1 - 5 %
Fatty alcohol ethoxylate	CAS no.: 78330-20-8	Xn; R22,R41 Eye Dam. 1;H318; Acute tox. 4;H302;	1 - 5 %
Substance comments	<p>5-15%: nonionic surfactant &lt;5%: phosphates .</p> <p>The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.</p>		

## 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	As described in section 2.2 and 2.3.
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.
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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. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.
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#### 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 respiratory protection. For personal protection, see section 8.
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#### 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.
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#### 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.
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#### 6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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## 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.
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### 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.
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### Conditions for safe storage

Storage Temperature	Value: -10-35 °C
Storage Stabilit	Durability: 36 months.

### 7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Disodium metasilicate, pentahydrate	CAS no.: 10213-79-3 EC no.: 229-912-9 Registration number: 01-2119449811-37-xxxx		

#### DNEL / PNEC from substances

Substance	Disodium metasilicate, pentahydrate
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 6,22 mg/m <sup>3</sup> Remarks: Supplier MSDS
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 1,49 mg/kg bw/d Remarks: Supplier MSDS
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 0,74 mg/kg bw/d Remarks: Supplier MSDS
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 1,55 mg/m <sup>3</sup> Remarks: Supplier MSDS
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect

	Value: 0,74 mg/kg bw/d Remarks: Supplier MSDS
PNEC	Exposure route: Water Value: 7,5 mg/l Remarks: Fresh water. Supplier MSDS
PNEC	Exposure route: Water Value: 1 mg/l Remarks: Marine water, Supplier MSDS
PNEC	Exposure route: Sewage treatment plant STP Value: 1000 mg/l Remarks: Supplier MSDS

## 8.2. Exposure controls

Limitation of exposure on workplace	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.
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## Safety signs



### Respiratory protection

Respiratory protection	In case of inadequate ventilation use suitable respirator. Use respiratory equipment with particle filter, type P2.
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### Hand protection

Hand protection	Use protective gloves made of: Butyl rubber. Neoprene. Nitrile.
Breakthrough time	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.

### Eye / face protection

Eye protection	Use eye protection.
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### Skin protection

Skin protection (except hands)	Wear apron or protective clothing in case of contact. Wear rubber footwear.
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### Thermal hazards

Thermal hazards	None specific.
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## Appropriate environmental exposure control

Environmental exposure controls	See section 6.
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## 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 (as supplied)	Value: ~ 13,0
pH (aqueous solution)	Value: ~ 11,0

Comments, pH (aqueous solution)	2%
Comments, Melting point / melting range	Not relevant.
Comments, Boiling point / boiling range	Not relevant.
Comments, Evaporation rate	Not relevant.
Comments, Explosion limit	Not relevant.
Comments, Vapour pressure	Not relevant.
Bulk density	Value: ~ 1,05 kg/l
Solubility description	Completely soluble in water.
Comments, Partition coefficient: n-octanol / water	Not relevant.
Comments, Decomposition temperature	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 <sub>2</sub> , NO <sub>x</sub> ) may be formed.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological Information:

Other toxicological data	Toxicological tests on the product has not been performed.
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#### Toxicological data for substances

Substance	Alkyl imidazolinium carboxylat
Skin corrosion / irritation	Species: Not known. Result: Non irritation to skin. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Irritation to eye. Method of testing: Not known.
Respiratory or skin sensitisation	Data lacking.

Substance	Disodium metasilicate, pentahydrate
LD50 oral	Value: > 1152-1349 mg/kg Animal test species: Rat Comments: Supplier MSDS
LD50 dermal	Value: > 5000 mg/kg Animal test species: rat Comments: Supplier MSDS
LC50 inhalation	Value: > 2,06 g/m3 Animal test species: rat Comments: Supplier MSDS
Skin corrosion / irritation	Species: Not known. Result: Corrosive to skin. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Corrosive to eyes. Method of testing: Not known.
Respiratory or skin sensitisation	Species: Not known. Result: Not Sensitising. Method of testing: Not known.
Substance	Fatty alcohol ethoxylate
LD50 oral	Value: 500-2000 mg/kg Animal test species: Rat
LD50 dermal	Value: > 4000 mg/kg Animal test species: Rat

## Other information regarding health hazards

General This substance is corrosive.

### Potential acute effects

Inhalation	Aerosols may be corrosive. Inhalation may cause: Serious damage to the lining of nose, throat and lungs.
Skin contact	Corrosive. Prolonged contact causes serious tissue damage.
Eye contact	Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.
Ingestion	Corrosive. Even small amounts may cause serious damage. May cause burns in mucous membranes, throat, oesophagus and stomach.

## SECTION 12: Ecological information

### 12.1. Toxicity

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 recorded.

### 12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

Mobility The product is water soluble and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

PBT assessment results Not Classified as PBT/vPvB by current EU criteria.

### 12.6. Other adverse effects

Environmental details, summation For this product no classification is required for environmental hazards.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of Do not empty into drains; dispose of this material and its container at

disposal	hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements. -
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
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

### 14.1. UN number

ADR	1719
RID	1719
IMDG	1719
ICAO/IATA	1719

### 14.2. UN proper shipping name

ADR	CAUSTIC ALKALI LIQUID, N.O.S. (Disodium Trioxosilicate)
RID	CAUSTIC ALKALI LIQUID, N.O.S. (Disodium Trioxosilicate)
IMDG	CAUSTIC ALKALI LIQUID, N.O.S. (Disodium Trioxosilicate)
ICAO/IATA	CAUSTIC ALKALI LIQUID, N.O.S. (Disodium Trioxosilicate)

### 14.3. Transport hazard class(es)

ADR	8
Hazard no.	80
RID	8
IMDG	8
ICAO/IATA	8

### 14.4. Packing group

ADR	III
RID	III
IMDG	III
ICAO/IATA	III

### 14.5. Environmental hazards

IMDG Marine pollutant	No
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### 14.6. Special precautions for user

EmS	F-A, S-B
Special safety precautions for user	Not relevant.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### Additional information.

Additional information.	Not relevant.
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## SECTION 15: Regulatory information

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

EEC-directive	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC.
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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.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). 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.

## 15.2. Chemical safety assessment

Chemical safety assessment performed	No
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## SECTION 16: Other information

### Hazard symbol



Corrosive

R-phrases	R34 Causes burns.
S-phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Skin Corr 1B; H314;
List of relevant R-phrases (under headings 2 and 3).	R37 Irritating to respiratory system. R36 Irritating to eyes. R34 Causes burns. R22 Harmful if swallowed. R41 Risk of serious damage to eyes.
List of relevant H-phrases (Section 2 and 3).	H318 Causes Serious eye damage. H302 Harmful if swallowed. H290 May be corrosive to metals. H335 May cause respiratory irritation. H314 Causes severe skin burns and eye damage. H319 Causes serious eye 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.
Information which has been added, deleted or revised	Change to Sections: 1, 2, 3, 9, 16
Version	4
Responsible for safety data sheet	Novadan ApS
Prepared by	ALM

