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NOVADAN®

SAFETY DATA SHEET Novaclean



SDS conform REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL 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
 07.08.2014

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.

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: Public domain (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 National Poisons Information Service:844 892 0111

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to

67/548/EEC or 1999/45/EC

C; R34

Substance / mixture hazardous

For further information, please refer to section 11.

properties

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2.2. Label elements

Hazard symbol



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). Disodium metasilicate, pentahydrate:1 - 5 %

Composition on the label

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
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; H314; Met. Corr. 1; H290; STOT SE3; H335;	1 - 5 %
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 %
Fatty alcohol ethoxylate	CAS no.: 26183-52-8 Registration number: 02- 2119549526-31-xxxx	Xn; R22,R41 Eye Dam. 1; H318; Acute tox. 4; H302;	1 - 5 %
Substance comments	5-15%: nonionic surfactant <5%: phosphates . The Full Text for all R-Phrases and Hazard Statements are 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.

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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. 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

Ingestion

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.

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

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 Fire fighting procedures Wear necessary protective equipment. For personal protection, see section 8. 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.

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 minimise 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

Store in tightly closed original container. Keep away from food, drink and Storage

animal feeding stuffs. Store protected from acids.

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.

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/m3

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/m3 Remarks: Supplier MSDS Group: Consumer

DNEL 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 Novaclean Page 5 of 9

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

standards and in discussion with the supplier of the personal protective

equipment.

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

Safety signs











Respiratory protection

Respiratory protection In case of inadequate ventilation use suitable respirator. Use respiratory

equipment with particle filter, type P2.

Hand protection

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

Eye / face protection

Eye protection Use eye protection.

Skin protection

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

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 (as supplied) Value: ~ 13.0 pH (aqueous solution) Value: ~ 11.0

Comments, pH (aqueous solution) 2%

Bulk density Value: ~ 1,05 kg/l

Solubility description Completely soluble in water.

Viscosity Value: < 50 mPas

9.2. Other information

Other physical and chemical properties

Comments No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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).

10.4. Conditions to avoid

Conditions to avoid Heating.

Extremes of temperatures. Avoid contact with acids.

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.

10.6. Hazardous decomposition products

Hazardous decomposition products In case of fire, toxic gases (CO, CO2, NOx) may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data

Toxicological tests on the product has not been performed.

Toxicological data for substances

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 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 Fatty alcohol ethoxylate

LD50 oral Value: 500-2000 mg/kg

Animal test species: Rat

LD50 dermal Value: > 4000 mg/kg

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

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first aid is imperative. Contact with concentrated chemical may very rapidly

cause severe eye damage, possibly loss of sight.

Inaestion 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.

Toxicological data for substances

Substance No data available for ingredient(s).

Aquatic, comments

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

disposal

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. RID CAUSTIC ALKALI LIQUID, N.O.S. **IMDG** CAUSTIC ALKALI LIQUID. N.O.S. ICAO/IATA CAUSTIC ALKALI LIQUID, N.O.S.

14.3. Transport hazard class(es)

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

14.4. Packing group

ADR Ш **RID** Ш **IMDG** Ш ICAO/IATA Ш

14.5. Environmental hazards

14.6. Special precautions for user

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

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

Additional information. Not relevant.

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.

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.

The Management of Health and Safety at Work Regulations 1999 (SI 1999 Legislation and regulations

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.

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

895).

15.2. Chemical safety assessment

Chemical safety assessment No

performed

headings 2 and 3).

SECTION 16: Other information

List of relevant R-phrases (under

R37 Irritating to respiratory system.

R36 Irritating to eyes. R34 Causes burns.

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

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List of relevant H-phrases (Section

2 and 3).

H318 Causes Serious eye damage.

H302 Harmful if swallowed.

H290 May be corrosive to metals. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H314 Causes severe skin burns and eye damage.

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, 3, 16

Version

3

Responsible for safety data sheet

Prepared by

Novadan ApS

ANI