

**NOVADAN®**

# SAFETY DATA SHEET

## Bistro Tabs

**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 01.07.2015

Revision date 22.09.2016

#### 1.1. Product identifier

Product name Bistro Tabs

Article no. 26331

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

Use of the substance/preparation Alkaline dishwashing liquid.

Relevant identified uses SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU4 Manufacture of food products

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

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 Regulation (EC) No 1272/2008 [CLP/GHS] Eye Irrit. 2;H319;

#### 2.2. Label elements

## Hazard Pictograms (CLP)



Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.
Precautionary statements	P280 Wear eye protection. 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.

### 2.3. Other hazards

Health effect	The product is irritating to eyes and skin. See section 11 for additional information on health hazards.
Environmental effects	This product does not contain any PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents
Sodium carbonate	CAS no.: 497-19-8 EC no.: 207-838-8 Index no.: 011-005-00-2	Eye Irrit. 2; H319	15 - 30 %
Sodium percarbonate	CAS no.: 15630-89-4 EC no.: 239-707-6 Registration number: 01-2119457268-30-xxxx	Xn, O; R22, R41, R8 Eye Dam. 1;H318; Acute tox. 4;H302; Ox. Sol. 2;H272;	10 - 20 %
Sodium silicate	CAS no.: 1344-09-8 EC no.: 215-687-4 Registration number: 01-2119448725-31-xxxx	Xi; R37/38,R41 Eye Dam. 1;H318; Skin Irrit. 2;H315; STOT SE3;H335;	5 - 10 %
Citric acid	CAS no.: 77-92-9 EC no.: 201-069-1	Xi; R36	1 - 5 %
Subtilisin	CAS no.: 9014-01-1 EC no.: 232-752-2 Index no.: 647-012-00-8	STOT SE3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 Resp. Sens. 1; H334 Note : Sen	< 1 %
Amylase, α-	CAS no.: 9000-90-2 EC no.: 232-565-6 Index no.: 647-015-00-4	Resp. Sens. 1; H334	< 0,5 %
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	Registration number: 02-2119630747-33-xxxx	Eye Irrit. 2;H319; Skin Irrit. 2;H315;	1 - 5 %
Substance comments	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	Fresh air. Get medical advice/attention if you feel unwell.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

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. Call a POISON CENTER or doctor/physician if you feel unwell.
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.

#### 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.

### 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. In case of fire, toxic gases may be formed.

#### 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 contact with skin and eyes.

#### 6.2. Environmental precautions

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

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Keep away from food, drink and animal feeding stuffs.

#### Conditions for safe storage

Storage Temperature **Value:** < 35 °C

Storage Stabilit Durability: 24 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
Sodium carbonate	CAS no.: 497-19-8 EC no.: 207-838-8 Index no.: 011-005-00-2		
Sodium percarbonate	CAS no.: 15630-89-4 EC no.: 239-707-6 Registration number: 01-2119457268-30-xxxx		
Sodium silicate	CAS no.: 1344-09-8 EC no.: 215-687-4 Registration number: 01-2119448725-31-xxxx		
Citric acid	CAS no.: 77-92-9 EC no.: 201-069-1		
Subtilisins	CAS no.: 9014-01-1 EC no.: 232-752-2 Index no.: 647-012-00-8	8-hour TWA: 0.00004 mg/m3	
Amylase, α-	CAS no.: 9000-90-2 EC no.: 232-565-6 Index no.: 647-015-00-4		
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	Registration number: 02-2119630747-33-xxxx		

#### DNEL / PNEC from substances

Substance	Sodium percarbonate
DNEL	<b>Group:</b> Consumer <b>Exposure route:</b> Dermal <b>Exposure frequency:</b> Short term (acute) <b>Type of effect:</b> Local effect <b>Value:</b> 6,4 mg/cm <sup>2</sup>
DNEL	<b>Group:</b> Worker <b>Exposure route:</b> Inhalation <b>Exposure frequency:</b> Long term (repeated) <b>Type of effect:</b> Local effect <b>Value:</b> 5 mg/m <sup>3</sup>
DNEL	<b>Group:</b> Worker <b>Exposure route:</b> Dermal <b>Exposure frequency:</b> Short term (acute) <b>Type of effect:</b> Local effect <b>Value:</b> 12,8 mg/cm <sup>2</sup>
PNEC	<b>Value:</b> 0,035 mg/l <b>Remarks:</b> Intermittent use/release
PNEC	<b>Exposure route:</b> Sewage treatment plant STP <b>Value:</b> 16,24 mg/l
PNEC	<b>Exposure route:</b> Water <b>Value:</b> 0,035 mg/l <b>Remarks:</b> Sea water
PNEC	<b>Exposure route:</b> Water <b>Value:</b> 0,035 mg/l <b>Remarks:</b> Fresh water

### 8.2. Exposure controls

Limitation of exposure on workplace      Personal protection equipment should be chosen according to the GEN standards and in discussion with the supplier of the personal protective equipment.

## Safety signs



### Respiratory protection

Respiratory protection

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

### Hand protection

Hand protection

Protective gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Butyl rubber. Neoprene. Nitrile. (EN 374)

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

Wear approved safety goggles. (EN 166).

### Skin protection

Skin protection (except hands)

Not relevant.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid.
pH (aqueous solution)	<b>Value:</b> 11,0
Comments, pH (aqueous solution)	10%
Comments, Melting point / melting range	Not relevant.
Comments, Boiling point / boiling range	Not relevant.
Comments, Flash point	Not relevant.
Comments, Evaporation rate	Not relevant.
Comments, Explosion limit	Not relevant.
Comments, Vapour pressure	Not relevant.
Comments, Vapour density	Not relevant.
Comments, Specific gravity	Not relevant.
Comments, Bulk density	Not relevant.
Solubility description	Completely soluble in water.
Comments, Partition coefficient: n-octanol / water	Not relevant.
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	Not relevant.
Comments, Viscosity	Not relevant.
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.

## 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. See section 10.1.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No data recorded.

### 10.4. Conditions to avoid

Conditions to avoid No data recorded.

### 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 During fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) are formed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological data for substances

Substance	Sodium percarbonate
LD50 oral	<b>Value:</b> = 1034 mg/kg <b>Animal test species:</b> Rat
LD50 dermal	<b>Value:</b> > 2000 mg/kg <b>Animal test species:</b> Rabbit
LC50 inhalation	<b>Value:</b> = 1,2 mg/l <b>Animal test species:</b> Mouse
Skin corrosion / irritation	Species: Not known. Result: Non irritation to skin. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Irreversible eye damage. Method of testing: Not known.
Respiratory or skin sensitisation	Species: Guinea Pig. Result: Not Sensitising. Method of testing: OECD 406
Substance	Sodium silicate
LD50 oral	<b>Value:</b> > 1300 mg/kg <b>Animal test species:</b> Rat
Substance	Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether
LD50 oral	<b>Value:</b> > 2000 mg/kg <b>Animal test species:</b> RAT

#### Acute toxicity, Mixture estimate

Assessment of acute toxicity classification No evidence for acute toxicity.

#### Potential acute effects

Inhalation	No specific health warnings noted.
Skin contact	Prolonged or repeated contact may cause irritation.
Eye contact	Irritating and may cause redness and pain.

Ingestion	Ingestion of large quantities may cause stomach ache, nausea and diarrhoea.
Aspiration hazard	No evidence for aspiration hazard.

### Delayed effects / repeated exposure

Sensitisation	No evidence for respiratory nor skin sensitization.
STOT-single exposure	No evidence for STOT-single exposure.
STOT-repeated exposure	No evidence for STOT-repeated exposure.

### Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	No evidence for carcinogenicity.
Mutagenicity	No evidence for germ cell mutagenicity.
Reproductive toxicity	No evidence for reproductive toxicity.

### Symptoms of Exposure

Symptoms of overexposure	No specific symptoms noted.
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## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicological data for substances

Substance	Sodium percarbonate
Persistence and degradability	The product solely consists of inorganic compounds which are not biodegradable.
Substance	Sodium silicate
Acute aquatic, fish	<b>Method of testing:</b> LC50 <b>Species:</b> Brachydanio Rerio <b>Duration:</b> 96h
Acute aquatic, Daphnia	<b>Value:</b> 4857 mg/l <b>Method of testing:</b> EC50 <b>Species:</b> Daphnia Magna <b>Duration:</b> 48h
Substance	Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether
Acute aquatic, fish	<b>Value:</b> 10-100 mg/l <b>Method of testing:</b> LC50 <b>Duration:</b> 96h
Acute aquatic, algae	<b>Value:</b> 10-100 mg/l <b>Method of testing:</b> EC50 <b>Species:</b> Scenedesmus subspicatus <b>Duration:</b> 72h
Acute aquatic, Daphnia	<b>Value:</b> 10-100 mg/l <b>Method of testing:</b> EC50 <b>Duration:</b> 48h

### 12.2. Persistence and degradability

Persistence and degradability	The product is biodegradable.
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### 12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
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### 12.4. Mobility in soil

### 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

## 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
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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	Waste code applies to product remnants in pure form. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

## SECTION 14: Transport information

### 14.1. UN number

Comments	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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### 14.2. UN proper shipping name

Comments	Not relevant.
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### 14.3. Transport hazard class(es)

### 14.4. Packing group

Comments	Not relevant.
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### 14.5. Environmental hazards

Comments	Not relevant.
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### 14.6. Special precautions for user

Special safety precautions for user	No recommendation given.
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### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## 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.
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. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). 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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND



**15.2. Chemical safety assessment****SECTION 16: Other information**

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Eye Irrit. 2; H319;
List of relevant R-phrases (under headings 2 and 3).	R36 Irritating to eyes. R41 Risk of serious damage to eyes. R8 Contact with combustible material may cause fire. R22 Harmful if swallowed. R37/38 Irritating to respiratory system and skin.
List of relevant H-phrases (Section 2 and 3).	H318 Causes Serious eye damage. H302 Harmful if swallowed. H315 Causes skin irritation. H335 May cause respiratory irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H272 May intensify fire; oxidiser. H319 Causes serious eye irritation.
Information which has been added, deleted or revised	Change to Sections: 1, 7, 16
Version	3
Responsible for safety data sheet	Novadan ApS
Prepared by	ALM