

<b>NOVADAN®</b>	<b>SAFETY DATA SHEET</b>	<b>NOVADAN®</b>
<b>Bistro Rinse 780</b>		

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 22.11.2018

Revision date 13.08.2021

### 1.1. Product identifier

Product name Bistro Rinse 780

Article no. 22104, 22105, 22108, 26235

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

Product group Dishwasher rinse.

Main intended use PC-DET-4.4 Rinse agents for dishes

Relevant identified uses  
 SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)  
 PC35 Washing and cleaning products (including solvent based products)  
 PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)  
 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](mailto:sds@novadan.dk)

Website [www.novadan.dk](http://www.novadan.dk)

## 1.4. Emergency telephone number

Emergency telephone

Description: UK: NHS: 111

EI: National Poisons Information Centre, 24/7: 01 809 2166

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Substance / mixture hazardous properties

The product is not classified.

### 2.2. Label elements

Hazard statements

EUH 210 Safety data sheet available on request.

### 2.3. Other hazards

Health effect

May be slightly irritating to skin and eyes.  
See section 11 for additional information on health hazards.

Environmental effects

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
Oxirane, methyl-, polymer with oxirane, monobutyl ether	CAS No.: 9038-95-3	Acute Tox. 4; H302	5 – 15 %	
Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block	CAS No.: 196823-11-7	Eye Irrit. 2; H319	1 – 5 %	
Sodium p-cumenesulphonate	CAS No.: 15763-76-5 EC No.: 239-854-6 REACH Reg. No.: 01-2119489411-37-xxxx	Eye Irrit. 2; H319	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%: anionic surfactant , <1% : preservative: Phenoxyethanol . 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 attention if any discomfort continues.

Skin contact	Rinse with water. Contact physician if discomfort continues.
Eye contact	Immediately rinse with water for several minutes. Make sure to remove any contact lenses from the eyes before rinsing. Contact physician if irritation persists.
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	No specific health warnings noted.
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.
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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	Avoid contact with eyes.
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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. Wash contaminated area with water.
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## 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

No specific usage precautions noted.

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

Storage

Store in tightly closed original container. Store the product away from direct sunlight in opaque containers.

### Conditions for safe storage

Storage temperature

Value: 0 – 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

#### DNEL / PNEC

Substance

Sodium p-cumenesulphonate

DNEL

**Group:** Consumer**Route of exposure:** Long term (repeated) – Oral – Systemic effect**Value:** 3,8 mg/kg bw/d**Group:** Consumer**Route of exposure:** Long term (repeated) – Dermal – Systemic effect**Value:** 3,8 mg/kg bw/day**Group:** Consumer**Route of exposure:** Long term (repeated) – Inhalation – Systemic effect**Value:** 13,2mg/m<sup>3</sup>**Group:** Worker**Route of exposure:** Long term (repeated) – Dermal – Systemic effect**Value:** 7,6 mg/kg bw/d**Group:** Worker**Route of exposure:** Long term (repeated) – Inhalation – Systemic effect**Value:** 53,6 mg/m<sup>3</sup>

PNEC

**Route of exposure:** Sewage treatment plant STP**Value:** 100 mg/l**Route of exposure:** Freshwater

**Value:** 0,23 mg/l

**Value:** 2,3 mg/l

**Reference:** intermittent releases

## 8.2. Exposure controls

### 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

Eye protection is not required under normal conditions.

### Hand protection

Skin- / hand protection, long term contact

Under normal conditions of use gloves are not normally required.

### 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

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

Colourless.

Odour

No characteristic odour.

pH

Status: In delivery state  
Value: ~ 4,5

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.
Density	Value: ~ 1,0 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	Value: < 50 mPa s
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	No information.
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### 10.4. Conditions to avoid

Conditions to avoid	No information.
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### 10.5. Incompatible materials

Materials to avoid	No information.
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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

Substance Oxirane, methyl-, polymer with oxirane, monobutyl ether

Acute toxicity  
**Type of toxicity:** Acute  
**Effect tested:** LD50  
**Route of exposure:** Oral  
**Value:** 200-2000 mg/kg  
**Animal test species:** Rat  
**Comments:** Supplier MSDS

Substance Sodium p-cumenesulphonate

Acute toxicity  
**Type of toxicity:** Acute  
**Effect tested:** LD50  
**Route of exposure:** Oral  
**Value:** 7200 mg/kg  
**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 No known chronic or acute health risks.

Skin contact Skin irritation is not anticipated when used normally.

Eye contact May cause temporary eye irritation.

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	Oxirane, methyl-, polymer with oxirane, monobutyl ether
Aquatic toxicity, fish	<b>Value:</b> > 100 mg/l <b>Test duration:</b> 96 hour(s) <b>Species:</b> Bracydanio rerio <b>Method:</b> LC50, OECD 203 <b>Test reference:</b> Supplier MSDS
Substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Aquatic toxicity, fish	<b>Value:</b> 1 – 10 mg/l <b>Test duration:</b> 96h <b>Species:</b> Brachydanio rerio <b>Method:</b> LC50
Substance	Sodium p-cumenesulphonate
Aquatic toxicity, fish	<b>Value:</b> 1000 mg/l <b>Method:</b> LC50
Substance	Oxirane, methyl-, polymer with oxirane, monobutyl ether
Aquatic toxicity, algae	<b>Value:</b> > 100 mg/l <b>Test duration:</b> 72 hour(s) <b>Species:</b> Scenedesmus Subspicatus <b>Test reference:</b> Supplier MSDS
Substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Aquatic toxicity, algae	<b>Value:</b> 10 – 100 mg/l <b>Test duration:</b> 72h <b>Species:</b> - <b>Method:</b> EC50
Substance	Sodium p-cumenesulphonate
Aquatic toxicity, algae	<b>Value:</b> 230 mg/l <b>Method:</b> LC50
Substance	Oxirane, methyl-, polymer with oxirane, monobutyl ether
Aquatic toxicity, crustacean	<b>Value:</b> > 100 mg/l <b>Exposure time:</b> 48 hour(s) <b>Species:</b> Daphnia magna
Substance	Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block
Aquatic toxicity, crustacean	<b>Value:</b> 1 – 10 mg/l <b>Test duration:</b> 48h <b>Species:</b> Daphnia <b>Method:</b> EC50
Substance	Sodium p-cumenesulphonate



Aquatic toxicity, crustacean **Value:** 1000 mg/l  
**Method:** EC50

Ecotoxicity No data recorded.

## 12.2. Persistence and degradability

Persistence and degradability description/evaluation The product is easily biodegradable.

Substance Oxirane, methyl-, polymer with oxirane, monobutyl ether

Biodegradability **Value:** > 60 %  
**Method:** OECD 301 F  
**Test period:** 28d

Substance Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block

Biodegradability **Value:** ≥ 90 %  
**Method:** Mod. OECD 301E

## 12.3. Bioaccumulative potential

Bioaccumulation, evaluation The product is not 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

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 No information.

# 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: 070601 aqueous washing liquids and mother liquors  
Classified as hazardous waste: No

EWL packing EWC waste code: 070601 aqueous washing liquids and mother liquors  
Classified as hazardous waste: No

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

Comments

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.2. UN proper shipping name

Comments

Not relevant.

### 14.3. Transport hazard class(es)

Comments

Not relevant.

### 14.4. Packing group

Comments

Not relevant.

### 14.5. Environmental hazards

### 14.6. Special precautions for user

Special safety precautions for user

Not relevant.

### 14.7. Maritime transport in bulk according to IMO instruments

## 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.

Water hazard class (DE)

Water hazard class (WGK): 1: low hazard to waters  
Source: Self-classification (mixture; calculation rule).

Legislation and regulations

The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments.  
EH40/2005, Workplace exposure limits 2005, 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.  
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 OF THE COUNCIL of 31 March 2004 on detergents. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

## 15.2. Chemical safety assessment

Chemical safety assessment performed No

## SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H302 Harmful if swallowed. 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 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	2
Prepared by	ALM