SAFETY DATA SHEET

NOVADAN®

Bistro Powder Cleaner 440

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	12.09.2012
Revision date	14.02.2018

1.1. Product identifier

Product name	Bistro Powder Cleaner 440
Article no.	41330

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

Use of the substance / preparation	General purpose detergent powder.
Relevant identified uses	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites 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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	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	Sodium percarbonate
Signal word	Danger
Hazard statements	H318 Causes serious eye damage.
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. P310 Immediately call a POISON CENTER or doctor / physician.

2.3. Other hazards

Health effect	May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. Dust has an irritating effect on moist skin. Inhalation of dust may irritate the respiratory system. 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	Notes
Sodium carbonate	CAS No.: 497-19-8 EC No.: 207-838-8 Index No.: 011-005-00-2 REACH Reg. No.: 01-211-9485498-19	Eye Irrit. 2; H319	60 - 100 %	
Sodium percarbonate	CAS No.: 15630-89-4 EC No.: 239-707-6	Eye Dam. 1; H318 Acute tox. 4; H302	15 - 30 %	

	REACH Reg. No.: 01-2119457268-30-xxxx	Ox. Sol. 2; H272	
Fattyalkohol alkoxylate	CAS No.: N.A. REACH Reg. No.: 02-2119630747-33-xxxx	Skin Irrit. 2; H315 Eye Irrit. 2; H319	1 - 5 %
Substance comments	15-30%: phosphates , oxygen-based bleaching agents <5%: nonionic surfactant . 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	Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.
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	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	Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.
Delayed symptoms and effects	No known long term effects.

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

Other information	In case of unconsciousness 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.

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	Wear necessary protective equipment. For personal protection, see section 8. Avoid contact with skin and eyes. Avoid inhalation of dust.

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	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	Avoid inhalation of dust and contact with skin and eyes. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Do not mix with acidic products.

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 - 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

Substance	Identification	Exposure limits	TWA Year

Mineral dust, inert	Limit value (8 h) : mg/m3 Limit value (8 h) : 10	TWA Year: 2005

DNEL / PNEC

Substance	Sodium carbonate
DNEL	**Group:** Worker **Route of exposure:** Long term (repeated) - Inhalation **Value:** 10 mg/m3 **Reference:** Supplier MSDS
Substance	Sodium percarbonate
DNEL	**Group:** Worker **Route of exposure:** Long term (repeated) - Inhalation - Local effect **Value:** 5 mg/m3 **Group:** Worker **Route of exposure:** Short term (acute) - Dermal - Local effect **Value:** 12,8 mg/cm2 **Group:** Consumer **Route of exposure:** Short term (acute) - Dermal - Local effect **Value:** 6,4 mg/cm2
PNEC	**Route of exposure:** Water **Value:** 0,035 mg/l **Reference:** Sea water **Route of exposure:** Sewage treatment plant STP **Value:** 16,24 mg/l **Route of exposure:** Water **Value:** 0,035 mg/l **Reference:** Fresh water **Value:** 0,035 mg/l **Reference:** Intermittent use/release

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. Provide eyewash, quick drench.

Eye / face protection

Suitable eye protection	Wear approved safety goggles. (EN 166).

Hand protection

Skin- / hand protection, long term contact	Gloves are recommended for prolonged use. Use protective gloves made of: Butyl rubber. Neoprene. Nitrile. (EN 374)
Breakthrough time	Value:
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	No special precautions.

Respiratory protection

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

Thermal hazards

Thermal hazards	See section 5.

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	Powder, dust.
Colour	White.
Odour	No characteristic odour.
pH	Status: In aqueous solution Value: ~ 11,0 Concentration: 4 %
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 (solid, gas)	Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.

Vapour density	Comments: Not relevant.
Bulk density	Value: ~ 1,05 kg/l.
Solubility	Medium: Water Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not relevant.
Spontaneous combustability	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Comments: 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.

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	Water, moisture, acids and heating.

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

Substance	Sodium carbonate

Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** 2800 mg/kg **Animal test species:** Rat **Comments:** Supplier MSDS **Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 2h **Value:** 0,8 mg/l **Animal test species:** guinea pig **Comments:** Supplier MSDS **Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 2h **Value:** 1,2 mg/l **Animal test species:** Mice **Comments:** Supplier MSDS **Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 2h **Value:** 2,3 mg/l **Animal test species:** Rat **Comments:** Supplier MSDS **Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Dermal **Value:** > 2000 mg/kg **Animal test species:** Rabbit **Comments:** Supplier MSDS
Substance	Sodium percarbonate
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** = 1034 mg/kg **Animal test species:** Rat **Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Value:** = 1,2 mg/l **Animal test species:** Mouse **Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Dermal **Value:** > 2000 mg/kg

	Animal test species: Rabbit
Substance	Fattyalkohol alkoxylate
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** > 2000 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	Dust may irritate respiratory system or lungs.
Skin contact	Skin irritation is not anticipated when used normally.
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	Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea.
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.

Symptoms of exposure

Symptoms of overexposure	No specific symptoms noted.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Sodium carbonate
Aquatic toxicity, fish	**Value:** 300 mg/l **Test duration:** 96H **Species:** Lepomis macrochirus **Method:** LC50

Substance	Fattyalkohol alkoxylate
Aquatic toxicity, fish	**Value:** 10-100 mg/l **Test duration:** 96h **Species:** Fish **Method:** LC50
Substance	Fattyalkohol alkoxylate
Aquatic toxicity, algae	**Value:** 10-100 mg/l **Test duration:** 48h **Species:** - **Method:** EC50
Substance	Sodium carbonate
Aquatic toxicity, crustacean	**Value:** 200 - 227 mg/l **Test duration:** 48H **Species:** Ceriodaphnia dubia **Method:** EC50
Substance	Fattyalkohol alkoxylate
Aquatic toxicity, crustacean	**Value:** 10-100 mg/l **Test duration:** 72h **Species:** - **Method:** EC50
Ecotoxicity	The product is not expected to be hazardous to the environment.
Aquatic, comments	No data available for the product.

12.2. Persistence and degradability

Substance	Fattyalkohol alkoxylate
Biodegradability	**Value:** > 60% **Method:** OECD 301B; ISO 9439; 92/69/EØF, C.4-C **Test period:** 28d
Persistence and degradability, comments	The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	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

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	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

14.1. UN number

Comments	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). The labelling "Eye Dam 1 - H318" does not require classification as dangerous goods.

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

Comments	Not relevant.

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

14.7. Transport in bulk according to Annex II of Marpol 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

Other label information	For professional users only.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). 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)	H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes Serious eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation.
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Dam. 1; H318
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: Does not require a hazard warning label.
Information added, deleted or revised	Change to Sections: 1, 2, 3, 4, 8, 11, 12, 13, 14, 16
Version	3
Prepared by	MP