Edelstahl-Reiniger

pure11-Nr.: 09135, Hersteller: MICRONOVA

Zusammenfassung

- Neue pure11-Artikelnummer (ab 01.07.2023): 1109135
- Spezielles Reinigungsmittel für Edelstahloberflächen
- Spray-Gel

Empfohlene Reinraumklassen

ISO	3	4	**5**	**6**	**7**	**8**	**9**
GMP					**C**	**D**	

Produktvarianten

pure11-Nr.: 09135
Herst.-Nr.: SC1-P / VE: 6 Stück

Quelle: https://www.pure11.de/edelstahl-reiniger

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Stainless Steel Cleaner

- **No-Drip Gel Formula**
- **Phosphorus Free**
- **Biodegradable**
- **No VOCs**
- **Non Atomized—Will Not Impact Air Quality**
- **NSF A7**
- **Available Irradiated**

Micronova's Gel **Stainless Steel Cleaner** uses advanced no-drip technology to eliminate streaks and drips when applied to stainless, metal and other hard surfaces. The 'spray' gel clings on contact and glides over most surfaces with minimum effort. When dealing with rust, oxidation and residue build up, the gel can be applied into seams and crevices to pre-treat before wiping – making the cleaning process more labor efficient. Unlike traditional liquid cleaners, the gel is not atomized into ambient air and so will not impact indoor air quality. The no-drip gel contains no phosphorus and has biodegradable surfactants. No VOCs

pH(concentrate)	8.5 ± 1.0
Appearance	Clear Gel
Fragrance	None
Freezing Point	32°F
Solubility in Water	Complete
Flash Point	200°F

Ingredients:

Water	7732-18-5
Polypropylene Glycol	25322-69-4
Alcohol Ethoxylate	34398-01-1

ISO 9001 : 2008 REGISTERED FIRM

MMI Part No.

SC1-P	Stainless Steel Cleaner
SC1-PIR	Stainless Cleaner Irradiated

Micronova Manufacturing Inc.
3431 W. Lomita Boulevard
Torrance, CA 90505
www.micronova-mfg.com

SAFETY DATA SHEET

StainlessClean Gel

Section 1. Identification

GHS product identifier : StainlessClean Gel

Other means of identification : Not available.

Product type : Liquid.

Identified uses

Cleaner for Stainless Steel.

Supplier's details : Micronova Manufacturing Inc.
3431 West Lomita Boulevard
Torrance, CA 90505
Tel : 310-784-6990
Toll free: 888-816-4276
Fax: 310-784-6980
Web: www.micronova-mfg.com
Email address of person responsible for sds: info@micronova-mfg.com

Emergency telephone number (with hours of operation) : CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887 (24 hours)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : AQUATIC HAZARD (ACUTE) - Category 3

GHS label elements

Signal word : No signal word.

Hazard statements : H402 - Harmful to aquatic life.

FOR INDUSTRIAL USE ONLY

Precautionary statements

Prevention : P273 - Avoid release to the environment.

Response : Not applicable.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified (HNOC)

Physical hazards not otherwise classified (PHNOC) : None known.

Health hazards not otherwise classified (HHNOC) : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

CAS number : Not applicable.

Product code : Not available.

Ingredient name	%	CAS number
Nonylphenol, ethoxylated	0.1 - 1	9016-45-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Section 4. First aid measures

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : No special measures are required.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Spill : Absorb with an inert material and place in an appropriate waste disposal container. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

None.

Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Propane-1,2-diol, propoxylated	US AIHA 10/2011	-	10	-	-	-	-	-	-	-	[a]

Form: [a]Aerosol

Appropriate engineering controls : Use only with adequate ventilation.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : No special measures required.

Eye/face protection : Not required under normal conditions of use.

Skin protection

Hand protection : Not required under normal conditions of use.

Body protection : Not required under normal conditions of use.

Other skin protection : Not required under normal conditions of use.

Respiratory protection : Not required under normal conditions of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Gel.]

Color : Clear.

Odor : None.

Odor threshold : Not available.

pH : 7.5

Melting point : Not available.

Boiling point : 100°C (212°F)

Flash point : Closed cup: >93.3°C (>199.9°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Not applicable.

Lower and upper explosive (flammable) limits : Not applicable.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Volatility : Not available.

VOC (w/w) : 0.9 % (w/w)

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Nonylphenol, ethoxylated	Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant	Guinea pig Mouse Rabbit Human Rabbit	- - - - -	20 mg 20 mg 20 mg 72 hours 15 mg Intermittent 500 mg	- - - - -

Sensitization

There is no data available.

Carcinogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Section 11. Toxicological information

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Nonylphenol, ethoxylated	Acute EC50 12 mg/L Fresh water Acute LC50 1.23 mg/L Marine water Acute LC50 0.148 mg/L Fresh water Acute LC50 4700 µg/L Fresh water Chronic NOEC 8 mg/L Fresh water Chronic NOEC 35 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata Crustaceans - Americamysis bahia Daphnia - Daphnia magna - Neonate Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata Fish - Oryzias latipes - Fry	96 hours 48 hours 48 hours 96 hours 96 hours 100 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT	TDG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

AERG : Not applicable.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR**: Nonylphenol, ethoxylated

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Nonylphenol, ethoxylated	0.1 - 1	No.	No.	No.	Yes.	No.

SARA 313

No products were found.

State regulations

Massachusetts : None of the components are listed.
New York : None of the components are listed.
New Jersey : None of the components are listed.
Pennsylvania : None of the components are listed.

California Prop. 65

No products were found.

Canada

Canadian lists

Canadian NPRI : None of the components are listed.
CEPA Toxic substances : None of the components are listed.
Canada inventory : All components are listed or exempted.

International lists

National inventory

Australia : All components are listed or exempted.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : All components are listed or exempted.
Malaysia : Not determined.
New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : Not determined.

Section 16. Other information

History

Date of issue mm/dd/yyyy : 06/15/2015
Version : 1
Prepared by : KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

BALAZS™ ANALYTICAL SERVICES
QUALITY MANAGEMENT SYSTEM CERTIFIED BY DNV ISO 9001
Air Liquide - Balazs™ Analytical Services
46409 Landing Parkway, Fremont CA 94538
Telephone (510) 624-4000 Fax (510) 657-2292

MR ANDRE JOHNSON
MICRONOVA MANUFACTURING INC
3431 WEST LOMITA BOULEVARD
TORRANCE CA 90505

Phone :(310) 784-6990
Fax :

Work Order: 11-02461-00
Report Date: 01-Apr-2011
Order Date: 28-Mar-2011
P.O.: E-9794
Release:
Approved By: Jeff S. Morimoto
Title: Manager, Ultratrace Laboratories

BALAZS™ TEST RESULTS

If you have any questions regarding the results, please call Jeff S. Morimoto at (510) 624-4000 Ext. 4007.

TM by ICP-MS for 30 Elements for Group 2 Chemicals

Parameter	RL	Sample Identification / Site: Stainless Cleaner
Units: ppb (ng/g)		
Aluminum (Al)	1	*
Barium (Ba)	0.1	*
Beryllium (Be)	1	*
Bismuth (Bi)	1	*
Cadmium (Cd)	0.1	*
Calcium (Ca)	5	*
Cesium (Cs)	0.1	*
Chromium (Cr)	0.5	*
Cobalt (Co)	0.1	*
Copper (Cu)	0.5	*
Gallium (Ga)	0.1	*
Indium (In)	0.1	*
Iron (Fe)	5	*
Lead (Pb)	0.1	*
Lithium (Li)	0.1	*
Magnesium (Mg)	0.1	0.4
Manganese (Mn)	0.1	*
Molybdenum (Mo)	0.5	*
Nickel (Ni)	0.1	*
Potassium (K)	5	40
Rubidium (Rb)	0.1	*
Silver (Ag)	1	*
Sodium (Na)	5	19
Strontium (Sr)	0.1	*
Thorium (Th)	1	*
Tin (Sn)	2	*
Titanium (Ti)	1	*
Vanadium (V)	0.1	*
Zinc (Zn)	1	*
Zirconium (Zr)	1	*

Stainless Steel Cleaner – Q & A Sheet

Q. We have a lot of stainless steel that over time is subject to rust and oxidation. Will the stainless steel cleaner remove this kind of build-up?

A. The cleaner will remove surface rust and oxidation from steel and metal surfaces. If there is long term rust degradation and 'pitting' due to heavy rust then the cleaning gel should be left to 'soak' on the affected area for the best result.

Q. Is the gel completely soluble in water and should I have any ecological concerns?

A. The gel is soluble in water and is biodegradable.

Q. What about CFC and HFCs

A. The gel does not contain CFC's and HfC's

Q. What about residues?

A. The formulation is water based and does not leave a residue. (Non volatile 600 ppm)

Q. We have a lot of stainless steel surfaces but have to be mindful of spray atomizing into the manufacturing environment – both a product and personnel concern?

A. The Stainless Steel cleaner is not atomized into ambient air like traditional spray and foam metal cleaners. This unique product does not impact indoor air quality and reduces respiratory exposure to cleaning products.

The formulation has <1% VOC's

Q. Can the gel be used to clean glass, ceramic and laminate surfaces

A. Yes, the gel works well on most hard surfaces. For the best finish on glass use microfiber cloth

Q. Before introducing new product we have to evaluate the cost. We have a lot of stainless steel surfaces to clean

A. The unique gel formulation, does not overspray like standard stainless steel cleaning products. This results in less product used - which helps lower cleaning costs.

The thickness of the gel allows it to be 'squirted' onto creases and bends in more complex metal fixtures, and stay in place – unlike liquids and foam products.

Q. My stainless steel surfaces come into contact with food products being prepared for the veterinary industry. As the formula is residue free I can feel comfortable using around food?

A. Reference to USDA rating (obsolete)