

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

NSF-A7 Stainless steel gloss

**Product no.**

NSF(152580) A7

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

NA

Washing and Cleaning Products (including solvent based products) (PC35)

Nonindustrial spraying (PROC 11)

Formulation [mixing] of preparations and/or re-packaging (excluding alloys) (SU 10)

Professional uses: Public domain (administration, education, entertainment, services, craftsmen) (SU 22)

Formulation of preparations (ERC2)

Metal articles (AC7)

**Uses advised against**

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The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

Pureno A/S

Rønnevangs Allé 8

3400 Hillerød

Denmark

Tlf.: +45 70 260 267

**Contact person**

Kenneth Christensen

**E-mail**

mail@pureno.dk

**SDS date**

2017-02-20

**SDS Version**

5.0

### 1.4. Emergency telephone number

Contact the National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Aerosol 1; H222, H229

Eye Irrit. 2; H319

STOT SE 3; H336

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**▼ Hazard pictogram(s)**

**Signal word**

Danger

**Hazard statement(s)**

Extremely flammable aerosol. (H222)  
 Pressurised container: May burst if heated. (H229)  
 Causes serious eye irritation. (H319)  
 May cause drowsiness or dizziness. (H336)

**Safety statement(s)**

**General** If medical advice is needed, have product container or label at hand. (P101).  
 Keep out of reach of children. (P102).  
**Prevention** Do not pierce or burn, even after use. (P251).  
**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).  
**Storage** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. (P410+P412).  
**Disposal** Dispose of contents/container to an approved waste disposal plant. (P501).

**Identity of the substances primarily responsible for the major health hazards**

Naphtha (petroleum), hydrotreated heavy (0,1&lt;benzen)

**2.3. Other hazards**

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

**Additional labelling**

Repeated exposure may cause skin dryness or cracking. (EUH066)

**Additional warnings**

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**VOC**

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**SECTION 3: Composition/information on ingredients****3.1/3.2. Substances/Mixtures**

NAME:	Naphtha (petroleum), hydrotreated heavy (0,1<benzen)
IDENTIFICATION NOS.:	CAS-no: 64742-48-9 EC-no: 265-150-3
CONTENT:	40-60%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1 H226, H304, H336, EUH066
NAME:	ethanol
IDENTIFICATION NOS.:	CAS-no: 64-17-5 EC-no: 200-578-6 Index-no: 603-002-00-5
CONTENT:	5-10%
CLP CLASSIFICATION:	Flam. Liq. 2, Eye Irrit. 2 H225, H319
NOTE:	S
NAME:	carbon dioxide
IDENTIFICATION NOS.:	CAS-no: 124-38-9 EC-no: 204-696-9
CONTENT:	5-10%
CLP CLASSIFICATION:	Refrig. Liq. Gas H281
NOTE:	L
NAME:	propan-2-ol
IDENTIFICATION NOS.:	CAS-no: 67-63-0 EC-no: 200-661-7 Index-no: 603-117-00-0
CONTENT:	3-5%
CLP CLASSIFICATION:	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 H225, H319, H336
NOTE:	S

(\*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.  
 S = Organic solvent L = European occupational exposure limit.

**Other information**

$$\text{Eye Cat. 2 Sum} = \text{Sum}(\text{Ci}/\text{S}(\text{G})\text{CLi}) = > 1 - 1,446$$

**SECTION 4: First aid measures****4.1. Description of first aid measures****▼ General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

**▼ Inhalation**

Bring the person into fresh air and stay with him.

**▼ Skin contact**

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

**▼ Eye contact**

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

**▼ Ingestion**

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

**Burns**

Rinse with water until pain stops then continue to rinse for 30 minutes.

**▼ 4.2. Most important symptoms and effects, both acute and delayed**

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

No special

**Information to medics**

Bring this safety data sheet.

**SECTION 5: Firefighting measures****▼ 5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

**▼ 5.2. Special hazards arising from the substance or mixture**

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

**▼ 5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

**SECTION 6: Accidental release measures****▼ 6.1. Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of vapours from spilled material. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

**6.2. Environmental precautions**

No specific requirements.

**▼ 6.3. Methods and material for containment and cleaning up**

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### ▼ 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

### SECTION 7: Handling and storage

#### ▼ 7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

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

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Beware, this chemical can form peroxides. The potential contents of peroxide must be controlled regularly after opening, for example every 6th month.

##### Storage temperature

No data available.

#### ▼ 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### ▼ OEL

carbon dioxide (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 5000 ppm | 9150 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 15000 ppm | 27400 mg/m<sup>3</sup>

ethanol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

##### ▼ DNEL / PNEC

DNEL (ethanol): 950 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol): 1900 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (ethanol): 343 mg/kg legemsvægt pr. dag

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol): 114 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 950 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (ethanol): 206 mg/kg legemsvægt pr. dag

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 87 mg/kg legemsvægt pr. dag

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 888 mg/kg bw/dag

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (propan-2-ol): 500 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (propan-2-ol): 319mg/kg bw/dag

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 89mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Systemic effects - General population  
 DNEL (propan-2-ol): 26mg/kg bw/dag  
 Exposure: Oral  
 Duration of Exposure: Long term – Systemic effects - General population

DNEL (Naphtha (petroleum), hydrotreated heavy (0,1<benzen)): 300 mg/kg bw/day  
 Exposure: Dermal  
 Duration of Exposure: Long term – Systemic effects - Workers  
 DNEL (Naphtha (petroleum), hydrotreated heavy (0,1<benzen)): 1500 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Systemic effects - Workers  
 DNEL (Naphtha (petroleum), hydrotreated heavy (0,1<benzen)): 300 mg/kg bw/day  
 Exposure: Dermal  
 Duration of Exposure: Long term – Systemic effects - General population  
 DNEL (Naphtha (petroleum), hydrotreated heavy (0,1<benzen)): 900 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Systemic effects - General population  
 DNEL (Naphtha (petroleum), hydrotreated heavy (0,1<benzen)): 300mg/kg bw/day  
 Exposure: Oral  
 Duration of Exposure: Long term – Systemic effects - General population  
 PNEC (ethanol): 0,96 mg/l  
 Exposure: Freshwater  
 PNEC (ethanol): 0,79 mg/l  
 Exposure: Marine water  
 PNEC (ethanol): 2,75 mg/l  
 Exposure: Intermittent release  
 PNEC (ethanol): 580 mg/l  
 Exposure: Sewage Treatment Plant  
 PNEC (ethanol): 3,6 mg/kg  
 Exposure: Freshwater sediment  
 PNEC (ethanol): 2,9 mg/kg  
 Exposure: Marine water sediment  
 PNEC (ethanol): 0,63 mg/kg  
 Exposure: Soil  
 PNEC (propan-2-ol): 552mg/kg  
 Exposure: Marine water sediment  
 PNEC (propan-2-ol): 140,9 mg/l  
 Exposure: Freshwater  
 PNEC (propan-2-ol): 28 mg/kg  
 Exposure: Soil  
 PNEC (propan-2-ol): 140,9 mg/l  
 Exposure: Marine water  
 PNEC (propan-2-ol): 140,9 mg/l  
 Exposure: Intermittent release  
 PNEC (propan-2-ol): 251 mg/l  
 Exposure: Sewage Treatment Plant  
 PNEC (propan-2-ol): 552 mg/kg  
 Exposure: Freshwater sediment

**8.2. Exposure controls**

- ▼ Compliance with the given occupational exposure limits values should be controlled on a regular basis.

**General recommendations**

- ▼ Observe general occupational hygiene standards.

**Exposure scenarios**

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

▼ **Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼ **Appropriate technical measures**

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

▼ **Hygiene measures**

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

▼ **Measures to avoid environmental exposure**

No specific requirements.

**Individual protection measures, such as personal protective equipment**

**Generally**

Use only CE marked protective equipment.

**▼ Respiratory Equipment**

No specific requirements.

**▼ Skin protection**

No specific requirements.

**▼ Hand protection**

Recommended: Nitrile rubber

**▼ Eye protection**

No specific requirements.

**SECTION 9: Physical and chemical properties****▼ 9.1. Information on basic physical and chemical properties**

Form	Aerosol
Colour	Clear
Odour	Alcohol odor
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	0,8

**▼ Phase changes**

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.

**▼ Data on fire and explosion hazards**

Flashpoint (°C)	12
Ignition (°C)	No data available.
Self-ignition (°C)	No data available.
Explosion limits (Vol %)	No data available.

**▼ Solubility**

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

**▼ 9.2. Other information**

Solubility in fat (g/L)	No data available.
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

**▼ 10.2. Chemical stability**

The product is stable under the conditions, noted in the section "Handling and storage".

**10.3. Possibility of hazardous reactions**

No special

**10.4. Conditions to avoid**

Avoid static electricity.

**▼ 10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Substance	Species	Test	Route of exposure	Result
propan-2-ol	Rabbit	LD50	Dermal	>2000 mg/kg
propan-2-ol	Rat	LD50	Oral	5840 mg/kg
propan-2-ol	Rat	LC50	Inhalation	47,5mg/l 8 h
propan-2-ol	Rat	LC50	Inhalation	66,1mg/l 4 h
carbon dioxide	Rat	LC50	Inhalation	470000 ppm 0,5 h
ethanol	Rabbit	LD50	Dermal	>17100 mg/kg
ethanol	Rat	LD50	Oral	10470 mg/kg
ethanol	Rat	LC50	Inhalation	124,7 mg/l
Naphtha (petroleum), hydrotrea...	Rat	LD50	Dermal	>5000mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LD50	Oral	>5000mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LC50	Inhalation	>5mg/L

#### ▼ Skin corrosion/irritation

No data available.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### STOT-single exposure

May cause drowsiness or dizziness.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### ▼ Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Species	Test	Duration	Result
propan-2-ol		NOEC	8d	>1800 mg/l
propan-2-ol	Algae	LC50	96 h	8970-9280 mg/l
propan-2-ol	Fish	EC50	24 h	9714 mg/l
propan-2-ol	Daphnia	EC50	18 h	5175 mg/l
ethanol	Crustacean	EC10		
ethanol	Crustacean	EC50		>1000mg/l
ethanol	Fish	LC50	48 h	8150 mg/l
ethanol	Fish	LC50	96h	1100 mg/l
ethanol	Daphnia	EC50	48 h	9268-14221 mg/l
ethanol	Algae	EC0	168 h	5000 mg/l
Naphtha (petroleum), hydrotrea...	Crustacean	EC0	16 h	6500 mg/l
Naphtha (petroleum), hydrotrea...	Daphnia	EC50	48 h	1000mg/L
Naphtha (petroleum), hydrotrea...	Fish	LC50	96 h	>1000 mg/l
Naphtha (petroleum), hydrotrea...	Algae	EC50		>1000mg/l

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
propan-2-ol	Yes	Modified OECD Screening Test	95%
ethanol	Yes	No data available	No data available
Naphtha (petroleum),	Yes	No data available	No data available

hydrotrea...

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BCF
propan-2-ol	No	No data available	No data available
carbon dioxide	No	0,83	No data available
ethanol	No	No data available	No data available

**12.4. Mobility in soil**

carbon dioxide: Log Koc= 0,735677, Calculated from LogPow (High mobility potential.).

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Other adverse effects**

No special

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product is covered by the regulations on hazardous waste.

**Waste**

EWC code  
16.05.04

**Specific labelling**

-

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: Transport information**

**14.1 – 14.4**

This product is within scope of the regulations of transport of dangerous goods.

**ADR/RID**

14.1. UN number	1950
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	2.1
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

**IMDG**

UN-no.	1950
Proper Shipping Name	Aerosols
Class	2.1
PG*	-
EmS	F-D, S-U
MP**	NO
Hazardous constituent	-

**IATA/ICAO**

UN-no.	1950
Proper Shipping Name	Aerosols
Class	2.1
PG*	-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

No data available

(\*) Packing group  
(\*\*) Marine pollutant



**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****▼ Restrictions for application**

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**Demands for specific education**

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**Additional information**

-

**Sources**

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

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 (CLP). EC regulation 1907/2006 (REACH).

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information****▼ Full text of H-phrases as mentioned in section 3**

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

H281 - Contains refrigerated gas; may cause cryogenic burns or injury.

H304 - May be fatal if swallowed and enters airways.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

EUH066 - Repeated exposure may cause skin dryness or cracking.

**The full text of identified uses as mentioned in section 1**

PC35 = Washing and Cleaning Products (including solvent based products)

PROC 11 = Nonindustrial spraying

SU 10 = Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU 22 = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

ERC2 = Formulation of preparations

AC7 = Metal articles

**Other symbols mentioned in section 2****Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked

According to EC-Regulation 2015/830

with a blue triangle.

**The safety data sheet is validated by**

KAO

**Date of last essential change**

**(First cipher in SDS version)**

2016-03-03

**Date of last minor change**

**(Last cipher in SDS version)**

2016-03-03

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