Steel & Copper cleaner, Part No 99990002

SAFETY DATA SHEET

Safety Data Sheet according to (EC) No. 1907/2006.

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

1.1. Product identifier:

Steel & Copper cleaner, Part No 99990002

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

Steel and copper cleaning agent.

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

SCANPAN A/S Phone.: + 45 8774 1400

Industrivej 49

DK 8550 Ryomgaard www.scanpan.dk

Responsible person for the safety data sheet (e-mail): service@scanpan.dk

1.4. Emergency telephone number:

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

CLP (1272/2008): None

2.2. Label elements:

EUH210: Safety data sheet available on request.

2.3. Other hazards: None known

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures:

% w/w 8-13	Substance name Citric acid	CAS-no. 77-92-9	EC-no. 201-069-1	Index-no.	REACH reg.no.	Classification Not classified	Note -
8-10	Ammonium chloride	12125-02-9	235-186-4	-	-	Acute Tox. 4;H302 Eye Irrit. 2;H319	1

^{1:} The substance has an occupational exposure limit.

Wording of hazard statements - see section 16.

SECTION 4: First-aid measures

4.1. Description of first aid measures:

Inhalation: Move the affected person to fresh air. Keep at rest. If needed: Get medical attention.

Skin contact: Remove contaminated clothing and wash skin with water and mild soap. If irritation persists: Seek medical

advice.

Eye contact: Immediately flush with water or physiological salt water for at least 15 minutes, holding eyelids open,

remember to remove contact lenses, if any. If irritation persists: Seek medical advice.

Ingestion: Rinse mouth and drink plenty of water. If needed: Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

Can cause irritation of eyes. May cause slight irritation of skin, lungs and gastrointestinal tract.

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

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media:

Use water spray (never water jet), dry chemical, foam or carbon dioxide.

5.2. Special hazards arising from the substance or mixture:

Do not inhale smoke fumes. In case of fire, the product may form hazardous decomposition products such as oxides of carbon.

5.3. Advice for firefighters:

Remove containers if possible or keep containers cool by spraying with water. Use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment - see section 8. Avoid further spreading. Ventilate area of leak or spill.

6.2. Environmental precautions:

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up:

Absorb spilled liquid with a cloth, inert material, or similar. Flush area of spill with plenty of water. Further handling of spillage - see section 13.

6.4. Reference to other sections:

See references above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Wash with plenty of water and soap after end use.

7.2. Conditions for safe storage, including any incompatibilities:

Store in a tightly closed original container in a well-ventilated area.

7.3. Specific end use(s):

See section 1.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters:

Occupational exposure limits (EH40/2005):

Substance8 h TWA15 min. STELAmmonium chloride, fume10 mg/m³20 mg/m³

DNEL/PNEC: No CSR. **8.2. Exposure controls:**

Appropriate engineering controls: None particular.

Personal protective equipment:

Inhalation: Normally not necessary.

Skin: Wear protective gloves of e.g. nitrile (EN374). Breakthrough time, approx. 3 hours.

Eyes: Wear tight fitting safety goggles (EN166) when there is a risk of splashes.

Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Appearance: White liquid
Odour: Slightly aromatic

pH: 4-5 Melting point / freezing point (°C): <0

Initial boiling point and boiling range (°C):

No available data
Decomposition temperature (°C):

No available data

Flash point ($^{\circ}$ C): >110

Evaporation rate:

Flammability (solid, gas):

Upper/lower flammability or explosive limits (vol.-%):

Vapour pressure (mbar, 25°C):

Vapour density (air=1):

No available data

No available data

Relative density (g/ml): >1
Solubility: Soluble

 $\begin{array}{lll} \mbox{Partition coefficient: n-octanol/water, Log K_{ow}:} & \mbox{No available data} \\ \mbox{Auto-ignition temperature (°C):} & \mbox{No available data} \\ \mbox{Viscosity:} & \mbox{No available data} \\ \mbox{Explosive/Oxidising properties:} & \mbox{Not explosive} \\ \mbox{\textbf{9.2. Other information:}} & \mbox{None relevant} \end{array}$

SECTION 10: Stability and reactivity

10.1. Reactivity:

No available data.

10.2. Chemical stability:

Stable under the recommended storage conditions - see section 7.

10.3. Possibility of hazardous reactions:

None known.

10.4. Conditions to avoid:

None known.

10.5. Incompatible materials:

None known.

10.6. Hazardous decomposition products:

When heated to high temperatures (decomposition) toxic gasses are formed such as oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects:

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	No available/applicable data.	-	=
Dermal	LD_{50} (rat) = >2000 mg/kg (Citric acid)	OECD 402	ECHA
	LD_{50} (rat) = >2000 mg/kg (Ammonium chloride)	EU Method B.3	ECHA
Oral	$LD_{50} = >5000 \text{ mg/kg (product)}$	No info	Supplier
	LD_{50} (rat) = 5400 mg/kg (Citric acid)	OECD 401	ECHA
	LD_{50} (rat) = 1410 mg/kg (Ammonium chloride)	No info	ECHA
Corrosion/irritation:	Moderate skin irritation, rabbit (Ammonium chloride)	No info	ECHA
Sensitization:	Not sensitizing, guinea pig (Ammonium chloride)	EPA 540/9-82-025	ECHA
CMR:	No CMR effects (Citric acid)	OECD 475, No info	ECHA, IUCLID
	No mutagenic effects (Ammonium chloride)	In vivo	ECHA

Information on likely routes of exposure: inhalation, skin and ingestion.

Symptoms:

Inhalation: Vapours may cause slight irritation to the airways.

Skin: May cause irritation.

Eyes: Can cause eye irritation with redness and paint.

Ingestion: May cause irritation of the gastrointestinal tract, nausea, vomiting and headache. Chronic effects: Long term or repeated skin contact may cause irritation and dry, cracked skin.

SECTION 12: Ecological information

12.1. Toxicity:

Aquatic	Data	Test (Media)	Data source
Fish	LC ₅₀ (Leuciscus idus melanotus, 96h) = 440 mg/l (Citric acid)	No info	ECHA
	LC ₅₀ , (Cyprinus carpio, 96h) = 209 mg/l (Ammonium chloride)	E03-05:APHA	ECHA
Daphnia	EC_{50} (Dreissena polymorpha, 48h) = >50 mg/l (Citric acid)	OECD 202	ECHA
	EC ₅₀ , (Daphnia magna, 48h) = 101 mg/l (Ammonium chloride)	ASTM E729-80	ECHA
Algae	EC ₅₀ (Scenedesmus quadricauda) = 640 mg/l (Citric acid)	No info	ECHA
	EC_{50} , (Navicula sp. 10d) = 90,4 mg/l (Ammonium chloride)	No info	ECHA

12.2. Persistence and degradability:

Citric acid is readily biodegradable (98%, OECD 301B). Ammonium chloride is an inorganic substance, methods for the determination of the biological degradation is not applicable to inorganic substances

12.3. Bioaccumulative potential:

Citric acid: Log $K_{ow} < 1$ - No significant bioaccumulative potential.

12.4. Mobility in soil:

Citric acid: K_{oc} < 10 – Large mobility in soil.

12.5. Results of PBT and vPvB assessment:

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

12.6. Other adverse effects:

None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

Disposal should be according to local, state or national legislation.

EWC-code: 20 01 01 (mixture itself)

15 02 03 (paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

Not dangerous goods (ADR/RID/IMDG/IATA).

14.1. UN-no.: None

14.2. UN proper shipping name: None **4.3. Transport hazard class(es):** None

14.4. Packing group: None 14.5. Environmental hazards: No 14.6. Special precautions for user: None

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

None

15.2. Chemical Safety Assessment:

No CSR.

SECTION 16: Other information

Hazard statements mentioned in section 2 and 3:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

EUH210: Safety data sheet available on request.

Abbreviations:

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

 EC_{50} = Effect Concentration 50%

FW = Fresh Water

 LC_{50} = Lethal Concentration 50%

 LD_{50} = Lethal Dose 50%

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Literature:

ECHA = European Chemicals Agency

Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:

Not relevant

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