



Safety Data Sheet
according to Regulation (EC)
No. 2020/878

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier	8644	Revision Date:	16/02/2023
Product Name:	CARBOCLEAN GEL 100	Supersedes Date:	29/11/2021
		Version Number:	2
UFI Code:	S7H0-Y014-V00K-U4EN		
Nano Form:	No		
1.2 Relevant identified uses of the substance or mixture and uses advised against	Applicators MUST be appropriately trained in the use of this product. Industrial cleaning agent. Advised against: others than recommended		
Product to be mixed with:	Not applicable		
Mixing ratio by volume Part A/ Part B:	Not applicable		
1.3 Details of the supplier of the safety data sheet			
Importer:	None		
Manufacturer:	Carboline Norge AS Postboks 593 3412 Lierstranda Norway		
	Regulatory / Technical Information: +47 32 85 73 00 +47 32 85 74 00		
Datasheet Produced by:	Tarka, Malgorzata - hms@carboline.com		
1.4 Emergency telephone number:	CHEMTREC +1 703 5273887 (Outside US) 112 (24/7) Croatia +3851 2348 342 (24/7 in Croatian and English) Iceland 112 (24/7) Malta 112 (24/7)		

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Eye Irritation, category 2

H319

2.2 Label elements

Symbol(s) of Product



Signal Word

Warning

Named Chemicals on Label

None

HAZARD STATEMENTS

Eye Irritation, category 2

H319

Causes serious eye irritation.

PRECAUTION PHRASES

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P337+313

If eye irritation persists: Get medical advice/attention.

ADDITIONAL INFORMATION

ADD-Note B

Note B: orthophosphoric acid < 10%

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

Endocrine disrupting properties - Toxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

Endocrine disrupting properties - Ecotoxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

SECTION 3: Composition/Information On Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous ingredients

Name According to EEC EINECS No. CAS-No. REACH Reg No.	%	Classifications	SCL Value ATE Value M-Factor

citric acid Monohydrate 201-069-1 5949-29-1 01-2119457026-42	25 - <50	H319 Eye Irrit. 2	SCL:	-
			ATE:	-
			M-Factor:	-
Orthophosphoric acid 231-633-2 7664-38-2 01-2119485924-24	2.5 - <10	H314 Skin Corr. 1B	SCL:	H314 ≥ 25 H315 ≥ 10 H319 ≥ 10
			ATE:	-
			M-Factor:	-

Remarks: CAS No. 007664-38-2: Note B

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: Show this safety data sheet to the doctor in attendance.

AFTER INHALATION: Move to fresh air. When risk of unconsciousness, place and transport the victim in secured recovery position. Provide fresh air, rest and warmth.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do not use solvent or thinners to clean skin.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Consult a physician.

AFTER INGESTION: Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth.

Self protection of the first aider:

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Heating or fire conditions liberates toxic gas.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

SECTION 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Ensure adequate ventilation. Use personal protective equipment.

6.1.2 For emergency responders

See Section 7, 8 and 10 for further information.

6.2 Environmental precautions

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

SECTION 7: Handling and Storage**7.1 Precautions for safe handling**

Electrical equipment should be protected to the appropriate standard. Wear personal protective equipment. Do not breathe vapours or spray mist. Apply technical measures to comply with the occupational exposure limits (see section 8). Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Avoid heat, sparks, flames and other ignition sources.

STORAGE CONDITIONS: Store in original container. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Protect from frost. Store in upright position only.

7.3 Specific end use(s)

The mixing and application to be in accordance with the technical data sheets.

SECTION 8: Exposure Controls/Personal Protection**8.1 Control parameters****Ingredients with Occupational Exposure Limits (EU)**

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
citric acid Monohydrate	5949-29-1				
Orthophosphoric acid	7664-38-2				

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
citric acid Monohydrate	5949-29-1	
Orthophosphoric acid	7664-38-2	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation. Annotations: Carc = Capable of causing cancer and/or heritable genetic damage, Sen = Capable of causing occupational asthma, Sk = Can be absorbed through the skin.

Chemical Name:

Orthophosphoric acid

EC No.:

231-633-2

CAS-No.:

7664-38-2

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required				0.73 mg/m3			
Inhalation	2 mg/m3		1 mg/m3					
Dermal								

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment soil (agricultural)	
Air	

8.2 Exposure controls**Personal Protection**

RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment: Gas filter type E2 (acid gases, yellow). In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator: Wear a full face respirator conforming to EN136: gas filter type E2 (acid gases, yellow).

EYE PROTECTION: If splashes are likely to occur, wear: Face-shield, tightly fitting safety goggles (EN 166).

HAND PROTECTION: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Use chemical resistant gloves (EN 374): Neoprene, nitril rubber, butyl rubber.

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location. Impervious clothing. Long sleeved clothing.

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

SECTION 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Colour	Light red gel
Physical State	Liquid
Odor	Faint
Odor threshold	Not determined
pH	0.5 - 1.3
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	100
Flash Point, (°C)	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Lower and upper explosive limit	Not explosive
Vapour Pressure	Not determined
Relative vapour density	Not applicable

Density and/or relative density	1.15 - 1.25
Solubility in / Miscibility with water	Soluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not applicable
Decomposition temperature (°C)	Not determined
Kinematic viscosity	Not determined

Particle characteristics Not applicable to liquids

9.2 Other information

VOC Content g/l: 0

Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.

Specific Gravity (g/cm³) 1.19

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No Information

10.4 Conditions to avoid

Avoid heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

No Information

10.6 Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂), oxides of nitrogen (NO_x).

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity:

Oral LD50: No information available on the product itself as the product is not tested.

Inhalation LC50: No information available on the product itself as the product is not tested.

Dermal LD50: No information available on the product itself as the product is not tested.

Irritation: No information available.

Corrosivity: Irritating to eyes

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction:	No information available.
STOT-single exposure:	No information available.
STOT-repeated exposure:	No information available.
Aspiration hazard:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.
Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
5949-29-1	citric acid Monohydrate	11700 mg/kg (Oral-rat)	No information	No information	No information	No information

Additional Information:

Irritating to eyes.

11.2 Information on other hazards

Endocrine disrupting properties - Toxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

SECTION 12: Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information

12.2 Persistence and degradability: Readily degradable.

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Ecotoxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

12.7 Other adverse effects: The product contains phosphorus which may lead to adverse local growth of algae following a large accidental release.

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
5949-29-1	citric acid Monohydrate	120 mg/L (EC40, daphnia)	No information	833 mg/L (rainbow trout)
7664-38-2	Orthophosphoric acid	> 100 mg/l (CE50, 48h, Daphnia magna)	> 100 mg/l (CE50r, 72h, Desmodemus subspicatus)	No information

SECTION 13: Disposal Considerations

13.1 WASTE TREATMENT METHODS: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Dispose of in accordance with local regulations.

European Waste Code: 12 03 01*

Packaging Waste Code: 15 01 10*

SECTION 14: Transport Information

	ADR/RID	ADN	IMDG	IATA
14.1 UN-number or ID number	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport Hazard Class(es)	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing Group	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Enviromental Hazards	Not applicable	Not applicable	Not applicable	Not applicable

14.6 Special precautions for user Not applicable

EmS-No.: No Information

14.7 Maritime transport in bulk according to IMO instruments Not applicable

SECTION 15: Regulatory Information

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

National Regulations:

Denmark Product Registration Number: Not available

Danish MAL Code: Not available

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Norway Product Registration Number: Not available

WGK Class:	3
Covered by Directive 2012/18/EC (Seveso III):	Not applicable
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	not applicable

Annex XIV - Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:

<u>CAS-No.</u>	<u>Name According to EEC</u>
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Not Applicable

SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

<u>CAS-No.</u>	<u>Name According to EEC</u>
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Not Applicable

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information**Text for CLP Hazard Statements shown in Section 3 describing each ingredient:**

H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

Reasons for revision

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes. This safety data sheet (SDS) has been prepared based on the SDS from the manufacturer.

List of References

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark
- Joint Research Centre in Ispra, Italy
- Regulation (EC) 1272/2008 with subsequent amendments
- Regulation (EC) 1907/2006 with subsequent amendments
- Commission Regulation (EU) 2020/878
- Eu Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

Acronym & Abbreviation Key

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit

ppm	Parts per million
mg/m ³	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance contains less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

For further information, please contact: Regulatory Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

