

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 08/06/2023

Reviewed on 08/06/2023

**1 Identification**

**Product identifier**

**Trade name: MEMBRANE CLEANER C**

**Article number:** 0655

**Application of the substance / the mixture** Professional use only

**Details of the supplier of the safety data sheet**

**Manufacturer / Importer / Supplier:**

Romaco BV  
Edisonstraat 11  
NL - 3261 LD Oud-Beijerland  
The Netherlands  
Tel: +31 186 615244  
Fax: +31 186 619385  
Email: info@rochem.nl

**Information department:** Product safety department.

**Emergency telephone number:**

Europe, Middle East & Africa:	+44 1865 407333
Americas:	+1 215 207 0061
Canada:	+1 800 579 7421 (Toll Free)
United States:	+1 866 928 0789 (Toll Free)
East/South East Asia:	+65 3158 1412
Australia:	+61 18000 74234 (Toll Free) acces from Austalia only

**2 Hazard(s) identification**

**Classification of the substance or mixture**



GHS07

Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.

**Label elements**

**Keep out of reach of children** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS07

**Signal word** Warning

**Hazard-determining components of labeling:**

citric acid

**Hazard statements**

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

**Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wear eye protection / face protection.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a poison center/doctor if you feel unwell.  
Specific treatment (see on this label).  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
If on skin: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 08/06/2023

Reviewed on 08/06/2023

Trade name: **MEMBRANE CLEANER C**

(Contd. of page 1)

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 0  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

HEALTH	2
FIRE	0
REACTIVITY	0

Health = 3  
Fire = 1  
Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**3 Composition/information on ingredients**

**Mixtures**

**Description:**

Mixture of substances specified below, possibly with non-hazardous additions or with components whose concentration is lower than the classification values..

**Dangerous components:**

77-92-9	citric acid ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	10-25%
1336-21-6	ammonia ⚠ Acute Toxicity - Inhalation 2, H330; ⚠ Corrosive to Metals 1, H290; Skin Corrosion 1B, H314; ⚠ Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	<1%

**4 First-aid measures**

**Description of first aid measures**

**General information:**

Persons, providing assistance, should avoid exposure and danger for themselves or others.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Never give anything by mouth to an unconscious person.

**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

**After eye contact:**

If possible, remove contact lenses.

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

**After ingestion:**

**DO NOT INDUCE VOMITING!**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**5 Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing agents:**

All extinguishing media are possible.

(Contd. on page 3)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 08/06/2023

Reviewed on 08/06/2023

**Trade name: MEMBRANE CLEANER C**

(Contd. of page 2)

Use fire fighting measures that suit the environment.  
**Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.  
**Advice for firefighters**  
**Protective equipment:** Wear self-contained respiratory protective device.  
**Additional information** Cool endangered receptacles with water spray.

**6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.  
 Use respiratory protective device against the effects of fumes/dust/aerosol.  
 Avoid breathing vapor and contact with eyes, skin and clothing.

**Environmental precautions:**

Remainder dilute with plenty of water.  
 for disposing to sewer: seek approval from Sewer System Operator

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

**Protective Action Criteria for Chemicals**

**PAC-1:**

1336-21-6	ammonia	61 ppm
532-32-1	sodium benzoate	61 mg/m <sup>3</sup>

**PAC-2:**

1336-21-6	ammonia	330 ppm
532-32-1	sodium benzoate	680 mg/m <sup>3</sup>

**PAC-3:**

1336-21-6	ammonia	2,300 ppm
532-32-1	sodium benzoate	810 mg/m <sup>3</sup>

**7 Handling and storage**

**Handling:**

**Precautions for safe handling**

No special precautions are necessary if used correctly.  
 Do not eat, drink or smoke while working.  
 Use only in well ventilated areas (eg natural ventilation).  
 Avoid inhalation of vapors and contact with eyes, skin and clothing.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and tanks:** Store only in the original receptacle.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

**Additional information about design of technical systems:** No further data; see section 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 08/06/2023

Reviewed on 08/06/2023

Trade name: **MEMBRANE CLEANER C**

(Contd. of page 3)

DNELs		
1336-21-6 ammonia		
Dermal	Long-term - systemic effects	6.8 mg/kg bw/day (Worker)
	Acute - systemic effects	6.8 mg/kg bw/day (Worker)
Inhalative	Acute - local effects	36 mg/m3 (Worker)
	Acute - systemic effects	47.6 mg/m3 (Worker)
	Long-term - local effects	14 mg/m3 (Worker)
	Long-term - systemic effects	47.6 mg/m3 (Worker)

PNECs	
1336-21-6 ammonia	
Fresh water	0,0011 mg/l
Marine water	0,0011 mg/l
Intermittent releases	0,0068 mg/l

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.

**Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.  
 Filter type ABEK

**Protection of hands:**



Protective gloves

Use protective gloves to EN ISO 374-1

Only use chemical-protective gloves with CE-labeling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Gloves made of Nitrile rubber, NBR

**Penetration time of glove material**

Permeation: Breakthrough time >480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles

Use safety glasses that meets the requirements of EN 166; latest versions.

**Body protection:** Protective work clothing

**Limitation and supervision of exposure into the environment** Prevent spills from reaching surface waters or soil.

## 9 Physical and chemical properties

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

**Form:** Fluid  
**Color:** Clear  
**Odor:** Characteristic

(Contd. on page 5)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 08/06/2023

Reviewed on 08/06/2023

**Trade name: MEMBRANE CLEANER C**

(Contd. of page 4)

<b>Odor threshold:</b>	Not determined.
<b>pH-value at 20 °C (68 °F):</b>	<3
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	<100 °C (<212 °F)
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Auto igniting:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined.
<b>Ignition temperature:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure at 20 °C (68 °F):</b>	23 hPa (17.3 mm Hg)
<b>Density at 20 °C (68 °F):</b>	1.129 g/cm <sup>3</sup> (9.422 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Fully miscible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	3 mPas
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Water:</b>	75.1 %
<b>Weight % solid:</b>	25.0 %
<b>Oxidizing properties:</b>	Does not contain oxidizing properties.
<b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

**Reactivity** Reacts violently with oxidizing agents, strong acids and strong bases.  
**Chemical stability**  
**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.  
**Possibility of hazardous reactions** No dangerous reactions known.  
**Conditions to avoid** No further relevant information available.  
**Incompatible materials:** No further relevant information available.  
**Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

**Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

Oral	LD50	5,800 mg/kg (Mouse)
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**77-92-9 citric acid**

Oral	LD50	5,040 mg/kg (Mouse)
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(Contd. on page 6)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 08/06/2023

Reviewed on 08/06/2023

**Trade name: MEMBRANE CLEANER C**

(Contd. of page 6)

**Transport hazard class(es)**  
**DOT, ADR/RID/ADN, ADN, IMDG, IATA**  
**Class** Void  
**Packing group**  
**DOT, ADR/RID/ADN, IMDG, IATA** Void  
**Environmental hazards:** Not applicable.  
**Special precautions for user** Not applicable.  
**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.  
**UN "Model Regulation":** Void

**15 Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**Sara**

**Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

**Section 313 (Specific toxic chemical listings):**

1336-21-6 ammonia

**Hazardous Air Pollutants**

None of the ingredients is listed.

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Carcinogenity categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**Keep out of reach of children** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS07

**Signal word** Warning

**Hazard-determining components of labeling:**

citric acid

**Hazard statements**

Causes skin irritation.  
 Causes serious eye irritation.  
 May cause respiratory irritation.

**Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wear eye protection / face protection.  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Call a poison center/doctor if you feel unwell.

(Contd. on page 8)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 08/06/2023

Reviewed on 08/06/2023

**Trade name: MEMBRANE CLEANER C**

(Contd. of page 7)

Specific treatment (see on this label).  
 If skin irritation occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 If on skin: Wash with plenty of water.  
 Take off contaminated clothing and wash it before reuse.  
 Store locked up.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.  
**National regulations:** Not applicable  
**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

**Relevant phrases**

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H335 May cause respiratory irritation.

**Training hints** Take care of good information, instruction and training for users.

**Contact:**

**Date of previous version** 01-03-2020

**Abbreviations and acronyms:**

- ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation Intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (Division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMS: Hazardous Materials Identification System (USA)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- EC50: Effective Concentration, 50 percent
- IOELVs: Indicative Occupational Exposure Limit Values
- mPa.s: milliPascal per second
- Corrosive to Metals 1: Corrosive to metals – Category 1
- Acute Toxicity - Oral 4: Acute toxicity – Category 4
- Acute Toxicity - Inhalation 2: Acute toxicity – Category 2
- Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
- Skin Irritation 2: Skin corrosion/irritation – Category 2
- Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
- Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

**Sources**

This information is based on the current available data (suppliers of raw materials, chemistry maps, Annex VI)  
 See also the internet site: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

**Disclaimer**

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(Contd. on page 9)





**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 08/06/2023

Reviewed on 08/06/2023

Trade name: **MEMBRANE CLEANER C**

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(Contd. of page 8)

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