

Safety data sheet

according to 1907/2006/EC, Article 31

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

- **1.1 Product identifier**
- **Trade name:**
Chemling Carcinogen Free Cleaning Sheets
Chemling RCS400 CF Series & Lingsheet RCS400 CF Series
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Industrial use
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
CAPLINQ Europe BV
Industrieweg 15 C
1566 JN Assendelft
The Netherland +31
20 893 2224
reach@caplinq.com

CAPLINQ Corporation
957 Snowshoe Crescent
Ottawa, ON K1C 2Y3
Canada
+1 (613) 482 2215
- **1.4 Emergency telephone number:** +31 20 893 2224

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Skin Corr. 1C H314 Causes severe skin burns and eye damage. Repr. 1B H360D May damage the unborn child.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  
GHS05 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
2-aminoethanol
imidazole

Trade name: Chemling Carcinogen Free Cleaning Sheets**· Hazard statements**

- H314 Causes severe skin burns and eye damage.
H360D May damage the unborn child.

· Precautionary statements

- P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients**· 3.2 Chemical characterisation: Mixtures****· Dangerous components:**

CAS: 141-43-5	2-aminoethanol	1 - 5%
EINECS: 205-483-3	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412	
Index number: 603-030-00-8		
CAS: 288-32-4	imidazole	1 - 2.5%
EINECS: 206-019-2	Repr. 1B, H360D; Skin Corr. 1C, H314; Acute Tox. 4, H302	
Index number: 613-319-00-0		
Reg.nr.: 01-2119485825-24-XXXX		

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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

- Take affected persons out of danger area and lay down.
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

- Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

- Immediately rinse with water.
Call a doctor immediately.

· After eye contact:

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

Trade name: Chemling Carcinogen Free Cleaning Sheets

- Call a doctor immediately.
- **After swallowing:**
 - Rinse out mouth and then drink plenty of water.
 - Do NOT induce vomiting.
 - Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 - Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
 - Formation of toxic gases is possible during heating or in case of fire.
 - In case of fire, the following can be released:
 - Carbon monoxide
 - Carbon dioxide
- Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained respiratory protective device.
 - **Additional information**
 - Cool endangered receptacles with water spray.
 - Collect contaminated fire fighting water separately. It must not enter the sewage system.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation.
 - Wear protective equipment. Keep unprotected persons away.
 - Avoid formation of dust.
 - Keep away from ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Use neutralising agent.
 - Pick up mechanically.
 - Dispose of the material collected according to regulations.
- **6.4 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.

Trade name: Chemling Carcinogen Free Cleaning Sheets

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire and explosion protection:

Dust can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

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

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 13463-67-7 titanium dioxide

WEL (Great Britain) Long-term value: 10* 4** mg/m³

*total inhalable **respirable

CAS: 56-81-5 glycerol

WEL (Great Britain) Long-term value: 10 mg/m³

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Trade name: Chemling Carcinogen Free Cleaning Sheets

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CAS: 141-43-5 2-aminoethanol

WEL (Great Britain) Short-term value: 7.6 mg/m³, 3 ppm
Long-term value: 2.5 mg/m³, 1 ppm
Sk

IOELV (EU) Short-term value: 7.6 mg/m³, 3 ppm
Long-term value: 2.5 mg/m³, 1 ppm
Skin

• DNELs**CAS: 288-32-4 imidazole**

Dermal DNEL(long/systemic) 1.5 mg/kg bw/day (Workers (Industrial/Professional))

Inhalative DNEL(long/systemic) 10.6 mg/m³ (Workers (Industrial/Professional))

• PNECs**CAS: 288-32-4 imidazole**

PNEC(aqua) 0.13 mg/L (freshwater)
0.013 mg/L (marine water)

PNEC(STP) 10 mg/L (sewage treatment plant)

PNEC(sediment) 0.336 mg/kg sedi. dw (freshwater)
0.034 mg/kg sedi. dw (marine water)

PNEC(soil) 0.043 mg/kg soil dw (soil)

• 8.2 Exposure controls**• Personal protective equipment:****• General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use selfcontained respiratory protective device.

• Protection of hands: S

Protective gloves

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

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

• 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material

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

Trade name: Chemling Carcinogen Free Cleaning Sheets

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

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SECTION 9: Physical and chemical properties**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:****Form:**

Solid

Colour:

White

· Odour:

Ammonia-like

· Odour threshold:

Not determined.

· pH-value:

Not applicable.

· Change in condition**Melting point/freezing point:**

Not determined.

Initial boiling point and boiling range:

Not applicable.

· Flash point:

Not applicable.

· Flammability (solid, gas):

Not determined.

· Ignition temperature:

450 °C (25038-36-2 Ethylene)

· Decomposition temperature:

Not determined.

· Explosive properties:

Product does not present an explosion hazard.

· Explosion limits:**Lower:**

2,5 Vol %

Upper:

18 Vol %

· Oxidising properties

No

· Vapour pressure:

Not applicable.

· Density at 20 °C:1 - 1,2 g/cm³**· Relative density**

Not determined.

· Vapour density

Not applicable.

· Evaporation rate

Not applicable.

· Solubility in / Miscibility with water:

Partly soluble.

· Partition coefficient: n-octanol/water:

141-43-5 2-aminoethanol -2,3 logPow @ 25°C (OECD Guideline 107)

· Viscosity:**Dynamic:**

Not applicable.

Kinematic:

Not applicable.

Trade name: Chemling Carcinogen Free Cleaning Sheets**· 9.2 Other information**

No further relevant information available. 288-32-4 imidazole
-0,02 logPow

@ 25°C (OECD Guideline 107)

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
 - CAS: 141-43-5 2-aminoethanol**
 - Oral LD50 1089 mg/kg (Rat) (OECD Guideline 401)
 - Dermal LD50 2504 mg/kg (Rabbit) (OECD Guideline 402)
 - Inhalative LC50 > 1.3 mg/L (Rat) (inhalation: vapour)
6 h
 - CAS: 288-32-4 imidazole**
 - Oral LD50 970 mg/kg (Rat) (OECD Guideline 401)
- **Primary irritant effect:**
- **Skin corrosion/irritation**
 - Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
 - Causes severe skin burns and eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
 - May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

Trade name: Chemling Carcinogen Free Cleaning Sheets

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 141-43-5 2-aminoethanol

LC50 (96h) 349 mg/L (Fish) (Directive 92/69/EEC, Cyprinus carpio)

EC10 (0,5h) (static) > 1000 mg/L (Bacteria) (OECD Guideline 209, activated sludge)
nominal

EC50 (48h) (static) 65 mg/L (Daphnia) (EU Method C.2, Daphnia magna) nominal

EC50 (72h) (static) 2.8 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata) nominal

NOEC (21d) 0.85 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)

NOEC (dynamic) 1.24 mg/L (Fish) (OECD Guideline 210, Oryzias latipes)
41 d

NOEC (72h) (static) 1 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)
nominal

CAS: 288-32-4 imidazole

LC50 (48h) (static) 283.6 mg/L (Fish) (Leuciscus idus) nominal

EC50 (48h) (static) 341.5 mg/L (Daphnia) (EU Method C.2, Daphnia magna) nominal

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EC50 (0,5h) (static) > 1000 mg/L (Bacteria) (OECD Guideline 209, activated sludge)
nominal

EC50 (72h) (static) 133 mg/L (Algae) (DIN 38412, part 9, Desmodesmus subspicatus) nominal

· 12.2 Persistence and degradability

141-43-5 2-aminoethanol > 90 % @ 21d (OECD Guideline 301A)

288-32-4 imidazole 90 - 100% (OECD Guideline 301 A)

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment** Not determined.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· **Recommendation:** Must be specially treated adhering to official regulations.

· Uncleaned packaging

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

Trade name: Chemling Carcinogen Free Cleaning Sheets

- ADR/RID/ADN, IMDG, IATA UN1759
- 14.2 UN proper shipping name
- ADR/RID/ADN 1759 CORROSIVE SOLID, N.O.S. (imidazole, ETHANOLAMINE)
- IMDG, IATA CORROSIVE SOLID, N.O.S. (imidazole, ETHANOLAMINE)
- 14.3 Transport hazard class(es)
- ADR/RID/ADN, IMDG, IATA

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- Class 8 Corrosive substances.
- Label 8
- 14.4 Packing group
- ADR/RID/ADN, IMDG, IATA III
- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for user Warning: Corrosive substances.
- Danger code (Kemler): 80
- EMS Number: F-A,S-B
- Segregation groups Alkalis
- Stowage Category A
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- Transport/Additional information:

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- ADR/RID/ADN
 - Tunnel restriction code E

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Trade name: Chemling Carcinogen Free Cleaning Sheets

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- **UN "Model Regulation":** UN 1759 CORROSIVE SOLID, N.O.S. (IMIDAZOLE, ETHANOLAMINE), 8, III
-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 30
 - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H360D May damage the unborn child.
H412 Harmful to aquatic life with long lasting effects. -

Abbreviations and acronyms:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN: United Nations (also UNO: United Nations Organization)
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
ASTM: American Society for Testing and Materials
WAF: Water Accommodated Fraction
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
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
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Trade name: Chemling Carcinogen Free Cleaning Sheets

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
