

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

• **1.1 Product identifier**

• Trade name: **14 Passivation & rust remover gel**

• Article number: 14 CLP

• **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

• Application of the substance / the mixture

Rust remover/ rust-removing agent

Cleaning material/ Detergent

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

• Manufacturer/Supplier:

Producteur:

Flowey / LCI sarl

2 ZAC Klengbousbiérg

L-7795 Bissen

LUXEMBOURG

tel : (+352) 33 52 50

e-mail : labo@flowey.com

Fournisseur :

Nautic Clean®

ZI RIEDGEN

Ancien site WSA

L-3451 Dudelange

LUXEMBOURG

Tél. (+352) 265 490 300

e-mail : contact@nautic-clean.com

• Further information obtainable from: product safety department

• **1.4 Emergency telephone number:**

During normal opening times(+ 352) 33 52 50

Mr Weynachter/Mr Podorieszack

SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

• Classification according to Regulation (EC) No 1272/2008



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 2 H310 Fatal in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

• **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



GHS06

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- Signal word Danger
- Hazard-determining components of labelling:
hydrogen fluoride
isotridecanol ethoxylate
- Hazard statements
H301+H331 Toxic if swallowed or if inhaled.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
- Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P262 Do not get in eyes, on skin, or on clothing.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
P321 Specific treatment (see on this label).
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 7647-01-0 EINECS: 231-595-7	acide chlorhydrique ☞ Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	5-10%
CAS: 7664-39-3 EINECS: 231-634-8	hydrogen fluoride ☞ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ☞ Skin Corr. 1A, H314	5-10%
CAS: 7697-37-2 EINECS: 231-714-2	nitric acid ☞ Ox. Liq. 3, H272; ☞ Skin Corr. 1A, H314	1- 5%
CAS: 69011-36-5 EC number: 931-138-8	isotridecanol ethoxylate ☞ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	1- 5%
• Regulation (EC) No 648/2004 on detergents / Labelling for contents		
non-ionic surfactants, amphoteric surfactants		< 5%

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing equipment only after contaminated clothing have been completely removed.
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 wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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- After swallowing:
Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. 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: Water
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- Information about fire - and explosion protection: Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
Keep container tightly sealed.
Protect from frost.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

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• 8.1 Control parameters

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

7647-01-0 acide chlorhydrique	
WEL	Short-term value: 8 mg/m ³ , 5 ppm Long-term value: 2 mg/m ³ , 1 ppm (gas and aerosol mists)
7664-39-3 hydrogen fluoride	
WEL	Short-term value: 2.5 mg/m ³ , 3 ppm Long-term value: 1.5 mg/m ³ , 1.8 ppm
7697-37-2 nitric acid	
WEL	Short-term value: 2.6 mg/m ³ , 1 ppm

• Additional information: The lists valid during the making were used as basis.

• 8.2 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.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

• Respiratory protection:

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

• Protection of hands:



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

• Eye protection:



Tightly sealed goggles

• Body protection: Use protective suit.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• General Information

• Appearance:

- Form: Viscous
- Colour: Light yellow
- Odour: Characteristic
- Odour threshold: Not determined.

• pH-value at 20 °C: 2

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- Change in condition
Boiling point/Boiling range: > 100 °C
- Flash point: Not applicable.
- Self-igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Density at 20 °C: 1.06
- Solubility in / Miscibility with water: Fully miscible.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- 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.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity:

• LD/LC50 values relevant for classification:

7647-01-0 acide chlorhydrique

Oral	LD50	900 mg/kg (rabbit)
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69011-36-5 isotridecanol ethoxylate

Oral	LD50	200-2000 mg/kg (rat)
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Dermal	LD50	> 2000 mg/kg (rat)
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- Primary irritant effect:
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- Sensitisation: No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Toxic
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

- **12.1 Toxicity**

• Aquatic toxicity:

69011-36-5 isotridecanol ethoxylate

EC50/48h	1-10 mg/l (daphnia)
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EC50/72 h	1-10 mg/l (algae)
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LC50/96 h	1-10 mg/l (fish)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, IMDG, IATA UN2922
- **14.2 UN proper shipping name**
- ADR 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, HYDROCHLORIC ACID)
- IMDG, IATA CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, HYDROCHLORIC ACID)
- **14.3 Transport hazard class(es)**
- ADR



- Class 8 (CT1) Corrosive substances.
- Label 8+6.1

- IMDG, IATA



- Class 8 Corrosive substances.
- Label 8+6.1
- **14.4 Packing group**
- ADR, IMDG, IATA II
- **14.5 Environmental hazards:**
- Marine pollutant: No
- **14.6 Special precautions for user** Warning: Corrosive substances.
- Danger code (Kemler): 86
- EMS Number: F-A,S-B
- Segregation groups Acids
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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• Transport/Additional information:

• ADR

• Limited quantities (LQ)

• Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

• Transport category

2

• Tunnel restriction code

E

• IMDG

• Limited quantities (LQ)

• Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

• UN "Model Regulation":

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, HYDROCHLORIC ACID), 8 (6.1), II

SECTION 15: Regulatory information

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

• National regulations:

• Danish MAL-Code 5-6

• **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**

H272 May intensify fire; oxidiser.

H300 Fatal if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

• **Abbreviations and acronyms:**

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)

MAL-Code: Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Liq. 3: Oxidising Liquids, Hazard Category 3

Acute Tox. 2: Acute toxicity, Hazard Category 2

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Acute Tox. 1: Acute toxicity, Hazard Category 1

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3