

Safety Data Sheet

according to WHS Regulations

Version: 03.11.2022

Version Number 14

Replaces version of: 21.06.2021

SECTION 1: Identification

- **Date of compilation:** 04.06.2012
- **1.1 Product identifier**
- **Trade name:** *Two in One*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation:** *Cleaning agent / Cleaner*
- **1.3 Details of the supplier of the safety data sheet**
- **Importer/Distributor:**

Phoeniks Pty Ltd
Unit 3, 56 Norcal Road
Nunawading VIC 3131
Tel: 1300 405 404
Email: contact@phoeniks.com.au
- **Informing department:**
Department of Occupational:
Tel.: +49 (0) 5331 89 - 0
email qualified Person MSDS: sdb@csb-online.de
- **1.4 Emergency telephone number:** (001) 352 323 3500

SECTION 2: Hazard(s) Identification

- * · **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  *corrosion* Text
- *Skin Corr. 1A H314 Causes severe skin burns and eye damage.*
- *Eye Dam. 1 H318 Causes serious eye damage.*
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- *STOT SE 3 H335 May cause respiratory irritation.*
- *Acute Tox. 5 H303 May be harmful if swallowed.*
- *Acute Tox. 5 H313 May be harmful in contact with skin.*
- *Aquatic Acute 3 H402 Harmful to aquatic life.*
- **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 GHS07
- **Signal word** *Danger*
- **Hazard-determining components of labelling:** *Sodium hydroxide*
Sodium carbonate
- **Hazard statements**
H303 May be harmful if swallowed.
H313 May be harmful in contact with skin. H314 Causes severe skin burns and eye damage.

(Contd. on page 2)

Safety Data Sheet according to WHS Regulations

Trade name: Two in One

(Contd. of page 1)

H335 May cause respiratory irritation.

H402 Harmful to aquatic life.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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.

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

2.3 Other hazards

Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition and Information on Ingredients

3.2 Chemical characterisation: Mixtures

· **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

1310-73-2	Sodium hydroxide ☠ Met. Corr. 1, H290; Skin Corr. 1A, H314	25-50%
77-92-9	Citric acid ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	25-50%
497-19-8	Sodium carbonate ⚠ Eye Dam. 1, H318; ⚠ STOT SE 3, H335	2.5-10%
146340-16-1	fatty alcohol ethoxylates ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Acute Tox. 5, H303	< 1,0 %

· **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:** Immediately remove any clothing contaminated by the product.

After inhalation:

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

In case of unconsciousness bring patient into stable side position for transport.

After skin contact:

Instantly rinse with water.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting - Danger of perforation!

Call a doctor immediately.

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

· **Danger:** Danger of gastric perforation.

· **4.3 Indication of any immediate medical attention and special treatment needed** symptomatic treatment

(Contd. on page 3)

Safety Data Sheet according to WHS Regulations

Trade name: *Two in One*

(Contd. of page 2)

SECTION 5: Fire Fighting Measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**

Carbon monoxide (CO) and Carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Avoid causing dust.
Do not breathe dust.
Avoid contact with skin and eyes.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Damp down dust with water spray jet.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Collect mechanically.
Send for recovery or disposal in suitable containers.
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 information on disposal.

SECTION 7: Handling and Storage

- **7.1 Precautions for safe handling**
Prevent formation of dust.
Decant and handle the product in dust-proof units.
Avoid contact with skin and eyes.
Keep containers tightly sealed.
Any deposit of dust which cannot be avoided must be removed regularly.
Do not breathe dust.
- **Information about protection against explosions and fires:** Protect from heat.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store only in the original container.
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizers.
- **Further information about storage conditions:**
Store container in a well ventilated position.
Notes on storage: At 0 - 50 °C , standing on its lid.
Store in a locked cabinet and out of the reach of children.
Protect from frost.

(Contd. on page 4)

Safety Data Sheet according to WHS Regulations

Trade name: *Two in One*

(Contd. of page 3)

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

SECTION 8: Exposure controls and personal protection

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

· 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:**

1310-73-2 Sodium hydroxide (25 - 50%)

WES (Australia) Peak limitation: 2 mg/m³

· DNELs

1310-73-2 Sodium hydroxide

Inhalative	DNEL long-term exposure - local effects	1 mg/m ³ (general population) 1 mg/m ³ (worker)
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497-19-8 Sodium carbonate

Inhalative	DNEL long-term exposure - systemic effects	10 mg/m ³ (general population) 10 mg/m ³ (worker)
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· PNECs

77-92-9 Citric acid

PNEC	0.44 mg/l (aqua (freshwater)) (Assessment factor 1000) 0.044 mg/l (aqua (marine water)) (Assessment factor 10000) 34.5 mg/kg (sediment (freshwater)) (Assessment factor 1) 3.46 mg/kg (sediment (marine water)) (Assessment factor 1) 33.1 mg/kg (soil) 1000 mg/l (STP (sewage treatment plant)) (Assessment factor 10)
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- **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any contaminated garments.

Wash hands during breaks and at the end of the work.

Use skin protection cream for preventive skin protection.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Do not breathe dust.

· Breathing equipment:

Use breathing protection in case of dust formation.

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· 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

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Trade name: Two in One

(Contd. of page 4)

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 safety glasses

· **Body protection:**

Protective work clothing

Body protection must be chosen depending on activity and possible exposure.

· **Limitation and supervision of exposure into the environment**

Do not allow to enter drainage system, surface or ground water.

SECTION 9: Physical and Chemical Properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: solid

Colour: white

· **Smell:** odourless

· **Odour threshold:** not determined

· **pH-value:** >12 / <2 (2 comp. system)

· **Change in condition**

Melting point/freezing point: not determined

Initial boiling point and boiling range: not determined

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** Not determined.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

Lower: Not determined.

Upper: Not determined.

· **Oxidising properties** not classified as oxidising

· **Vapor pressure:** Not applicable.

· **Density:** not determined

· **Relative density** Not determined.

· **Vapour density (AIR = 1):** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

Water: soluble

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

dynamic: Not applicable.

kinematic: Not applicable.

· **9.2 Other information** No further relevant information available.

AU

(Contd. on page 6)

Safety Data Sheet according to WHS Regulations

Trade name: Two in One

(Contd. of page 5)

SECTION 10: Stability and Reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Heat
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:**

Carbon monoxide (CO) and Carbon dioxide (CO₂)

SECTION 11: Toxicological Information

- **11.1 Information on toxicological effects**

- **Acute toxicity**

May be harmful if swallowed.

May be harmful in contact with skin.

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

1310-73-2 Sodium hydroxide

Oral	LD50	2000 mg/kg (rat)
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77-92-9 Citric acid

Oral	LD50	5790 mg/kg (rat) (OECD Guideline 401)
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Dermal	LD50	> 2000 mg/kg (rat) (OECD 402)
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497-19-8 Sodium carbonate

Oral	LD50	4090 mg/kg (rat)
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Dermal	LD50	2000 mg/kg (rabbit)
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Inhalative	LC50/2h	2300 mg/m ³ (rat, male)
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fatty alcohol ethoxylates

Oral	LD50	> 2000 mg/kg (rat)
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- **Primary irritant effect:**

- **Skin corrosion/irritation**

Dust particles may mechanically irritate the skin.

Causes severe skin burns and eye damage.

- **Serious eye damage/irritation**

Dust particles may mechanically irritate the eye.

Causes serious 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** no data available

- **Carcinogenicity** no data available

- **Reproductive toxicity** no data available

- **STOT-single exposure**

no data available

May cause respiratory irritation.

- **STOT-repeated exposure** no data available

- **Aspiration hazard** no data available

AU

(Contd. on page 7)

Safety Data Sheet according to WHS Regulations

Trade name: Two in One

(Contd. of page 6)

SECTION 12: Ecological Information

· **12.1 Toxicity**

· **Aquatic toxicity:**

1310-73-2 Sodium hydroxide

LC50/48 h	133 - 189 mg/l (leuciscus idus)
LC50/96 h	99 mg/l (bluegill (lepomis macrochirus)) 45.4 mg/l (rainbow trout (oncorhynchus mykiss))

77-92-9 Citric acid

EC0	> 10000 mg/l (bacteria)
EC50/72 h	~120 mg/l (water flea (daphnia magna))
LC50	440 - 760 mg/l (leuciscus idus)

497-19-8 Sodium carbonate

EC50/48 h	256 mg/l (water flea (daphnia magna))
LC50/96 h	740 mg/l (gambusia affinis) 300 mg/l (bluegill (lepomis macrochirus))

fatty alcohol ethoxylates

EC50/48 h	0.1 - 1 mg/l (aquatic invertebrates)
LC50/96 h	0.1 - 1 mg/l (leuciscus idus)
NOEC/21 d	0.25 mg/l (aquatic invertebrates)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **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** Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADG, IMDG, IATA** UN1823
- **14.2 UN proper shipping name**
- **ADG** UN1823 SODIUM HYDROXIDE, SOLID MIXTURE
- **IMDG, IATA** SODIUM HYDROXIDE, SOLID MIXTURE

(Contd. on page 8)

Safety Data Sheet

according to WHS Regulations

Trade name: *Two in One*

(Contd. of page 7)

· **14.3 Transport hazard class(es)**

· **ADG**



· **Class** 8 (C6) Corrosive substances.

· **IMDG, IATA**



· **Class** 8 Corrosive substances.
 · **Label** 8

· **14.4 Packing group**

· **ADG, IMDG, IATA** II

· **14.6 Special precautions for user**

Warning: Corrosive substances.

· **Kemler Number:**

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

Alkalis

· **Stowage Category**

A

· **Segregation Code**

SG35 Stow "separated from" acids.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

Transport by post may be prohibited or restricted.

· **ADG**

· **Limited quantities (LQ):**

1 kg

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

· **Transport category:**

2

· **Tunnel restriction code:**

E

· **IMDG**

· **Limited quantities (LQ)**

1 kg

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

· **UN "Model Regulation":**

UN 1823 SODIUM HYDROXIDE, SOLID MIXTURE, 8, II

SECTION 15: Regulatory information

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

· **Australian Inventory of Chemical Substances**

1310-73-2	Sodium hydroxide
77-92-9	Citric acid
527-07-1	sodium gluconate
497-19-8	Sodium carbonate

(Contd. on page 9)

Safety Data Sheet

according to WHS Regulations

Trade name: Two in One

(Contd. of page 8)

· **Standard for the Uniform Scheduling of Medicines and Poisons**

1310-73-2 Sodium hydroxide

S5+APPENDIX C, S6+APPENDIX C

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

The(se) H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the product.

· **Department issuing SDS:**

C.S.B. GmbH Phone: +49 - 2151 - 652086-0
 Düsseldorf Str. 113 Fax: +49 - 2151 - 652086-9
 47809 Krefeld / Germany

· **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)
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
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 5: Acute toxicity – Category 5
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

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* Data compared to the previous version altered