

According to Regulation (EU) No 830/2015

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

| Product name | : PROCAR GLASS CLEAN |
|--------------|----------------------|
| Product code | : 3416000 |
| MSDS nr. | : 1353 |

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application

: Professional use. (SU22). Cleaning agent (PC35).

1.3. Details of the supplier of the safety data sheet

| Supplier : | Kemetyl Nederland BV Industrieweg 30 - 32 3762 EK Soest, The Netherlands |
|-------------|--|
| Telephone : | +31-35-6012890 |
| Fax : | +31-35-6022066 |
| E-mail : | msds@kemetyl.com |
| Website : | www.kemetyl.com |

1.4. Emergency telephone number

| EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only: NL - Telephone : +31-35-6012890 (During office hours only) | | | |
|--|--|--------|--|
| EMERGENCY TELEPHONE NUMBER (for DOCTORS only): National Poisons Information Service +44-844 892 0111 | | (24/7) | |

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

| CLP classification (1272/2008/EC) | : | Skin irritation, category 2. Eye irritation, category 2. |
|---|---|---|
| Human health hazards Physical/chemical hazards Environmental hazards Other information | : | Causes skin irritation. Causes serious eye irritation. Not classified as dangerous according to statutory EC-Directives. Combustible. Not classified as dangerous according to statutory EC-Directives. Keep out of the reach of children. |

2.2. Label elements

| 8/EC): | |
|------------------------|---|
| : Warning | |
| : H315 H319 P102 | Causes skin irritation. Causes serious eye irritation. Keep out of reach of children. |
| | : Warning : H315 H319 |

Additional labelling

: 18-05-2015



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Ingredient declaration according to Regulation 648/2004:

Contains: Perfumes Concentration (%)

2.3. Other hazards

Other information

: Does not contain PBT or vPvB substances.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

| Product description : Mixture. | | | | | |
|--|----------------------------|----------|-----------|------------------|-----|
| Substance name | Concentration (w/w) (%) | CAS nr. | EC number | REACH nr. | OEL |
| 2-Butoxyethanol Acute Tox. 4; Eye Irrit. 2; Skin Irrit. 2 H332; H312; H302; H319; H315 | 10 - < 20 | 111-76-2 | 203-905-0 | 01-2119475108-36 | # |
| Monoethanolamine Acute Tox. 4; Skin Corr. 1B H332; H312; H302; H314; H335 | 0,1 - < 1 | 141-43-5 | 205-483-3 | 01-2119486455-28 | # |

Reference is made to chapter 16 for full text of each relevant H phrase. Substance(s) with an Occupational Exposure Limit are marked with #. Occupational exposure limit(s) are listed in section 8.

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

| First aid measures | |
|--------------------|--|
| Inhalation | : Move victim into fresh air. Consult a doctor if victim feels unwell. |
| Skin contact | : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. |
| | Consult a doctor if irritation persists. |
| Eye contact | : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor. |
| Ingestion | : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell. |

4.2. Most important symptoms and effects, both acute and delayed

| Effects and symptoms | |
|----------------------|---|
| Inhalation | May cause headache, dizziness and a feeling of sickness. May cause irritation to respiratory airways and coughing. |
| Skin contact | : Irritant. May cause dry skin and redness. |
| Eye contact | : Irritant. May cause redness and pain. |
| Ingestion | : May cause a feeling of sickness, vomiting and diarrhoea. |

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media



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| Extinguishing media | |
|---------------------|---|
| Suitable | : Carbondioxide (CO2). Foam. Dry chemical. Water fog. |
| Not suitable | : None known. |

5.2. Special hazards arising from the substance or mixture

| Special exposure hazards | : | None known. |
|--------------------------|---|---|
| Hazardous thermal | : | Carbon monoxide may be evolved if incomplete combustion occurs. |
| decomposition products | | |

5.3. Advice for firefighters

| Special protective | : | Use adequate respiratory equipment in case of insufficient ventilation. |
|-----------------------------|---|---|
| equipment for fire-fighters | | |

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

| Personal precautions | : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Vapours are |
|----------------------|--|
| | heavier than air. Build up (of gasses) in low areas involves risk of suffocation. |

6.2. Environmental precautions

| Environmental precautions | : | Avoid release of product into sewers, surface water and/or ground water. Large spills: contain with |
|---------------------------|---|---|
| | | dike. |
| Other information | : | Notify authorities if any exposure to the general public or the environment occurs or is likely to |
| | | OCCUR. |

6.3. Methods and material for containment and cleaning up

: Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an Methods for cleaning up authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : For guidance on selection of personal protective equipment see section 8. For guidance on disposal of spilled material see section 13.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling

: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

| Storage | : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. |
|---|---|
| Recommended packaging Non recommended packaging | Keep only in the original container.Steel (except stainless steel). |

7.3. Specific end use(s)

Use

: Use only as directed. Do not mix with other products.



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Occupational exposure limits (mg/m³):

| Chemical name | Country | TWA 8 hour | STEL 15 min | Comments |
|------------------|---------|------------|-------------|------------|
| | | (mg/m3) | (mg/m3) | |
| 2-Butoxyethanol | GB | 123 | 246 | Skin; BMGV |
| 2-Butoxyethanol | EC | 100 | 246 | Skin |
| Monoethanolamine | GB | 7,6 | 2,5 | Skin |
| Monoethanolamine | EC | 2,5 | 7,6 | Skin |

Derived no-effect level (DNEL) for workers:

| Chemical name | Route of | DNEL, short-term | | DNEL, long-term | |
|------------------|------------|------------------|-----------------|-----------------|-----------------|
| | exposure | | | | |
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| 2-Butoxyethanol | Dermal | | 89 mg/kg bw | | 75 mg/kg bw/day |
| | Inhalation | 246 mg/m3 | 663 mg/m3 | | 98 mg/m3 |
| Monoethanolamine | Dermal | | | | 1 mg/kg bw/day |
| | Inhalation | | | 3,3 mg/m3 | |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of | DNEL, short-t | erm DN | IEL, long-term | |
|------------------|------------|---------------|---------------------|----------------|-------------------|
| | exposure | | | | |
| | | Local effect | Systemic effect Loc | cal effect | Systemic effect |
| 2-Butoxyethanol | Dermal | | 44,5 mg/kg bw | | 38 mg/kg bw/day |
| | Inhalation | 123 mg/m3 | 426 mg/m3 | | 49 mg/m3 |
| | Oral | | 13,4 mg/kg bw | | 3,2 mg/kg bw/day |
| Monoethanolamine | Dermal | | | | 0,24 mg/kg bw/day |
| | Inhalation | | 2 m | ng/m3 | |
| | Oral | | | | 3,75 mg/kg bw/day |

Predicted no-effect concentration (PNEC):

| Chemical name | Route of exposure | Fresh water | Marine water | |
|-----------------|--------------------|-------------|--------------|-----------------|
| 2-Butoxyethanol | Water | 8,8 mg/l | 0,88 mg/l | |
| | Sediment | 34,6 mg/kg | 3,46 mg/kg | |
| | Intermittent water | | | 9,1 mg/l |
| | STP | | | 463 mg/l |
| | Soil | | | 3,13 mg/kg |
| | Oral | | | 0,02 mg/kg food |

8.2. Exposure controls

Engineering measures

: Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures

: When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use.



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| Respiratory protection | : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale |
|------------------------|--|
| | exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance |
| | with EN 140. |
| Hand protection | : Wear appropriate safety gloves in accordance with EN 374. Suitable material: butyl. ± 0,5 mm. Indication of permeation breakthrough time: not permeable. |
| Eye protection | : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is |
| | danger of possible eye contact. |
| | |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Appearance | : Liquid. | |
|-----------------------------|-------------------|--|
| Colour | : Blue. | |
| Odour | : Perfumed. | |
| Odour threshold | : Not known. | |
| рН | : 10,5 | |
| Solubility in water | : Soluble. | |
| Partition coefficient (n- | : Not applicable. | |
| octanol/water) | | |
| Flash point | : 72 °C | |
| Flammability (solid, gas) | : Not applicable. | Liquid. See flashpoint. |
| Auto ignition temperature | : > 230 °C | |
| Boiling point/boiling range | : 100 °C | |
| Melting point/melting range | : <0 °C | |
| Explosive properties | : None known. | Does not contain explosives. |
| Explosion limits (in air) | : Not known. | Lower explosion limit in air (%): 1,3 (2-Butoxyethanol) |
| | : | Upper explosion limit in air (%): 10,6 |
| Oxidising properties | : Not applicable. | Does not contain oxidizing substances. |
| Decomposition temperature | : Not applicable. | |
| Viscosity (20°C) | : Not known. | |
| Viscosity (40°C) | : Not relevant. | The product contains < 10% substances having an aspiration hazard. |
| | : Not known. | |
| , | : >1 | (air = 1) |
| Relative density (20°C) | : 0,99 g/ml | |
| Evaporation rate | : <1 | (n-butyl acetate = 1) |

SECTION 10 STABILITY AND REACTIVITY

| 10.1. Reactivity | | |
|--|---------------------------------------|--|
| Reactivity | : See sub-sections below. | |
| 10.2. Chemical stability | | |
| Stability | : Stable under normal conditions. | |
| 10.3. Possibility of hazardous reactions | | |
| Reactivity | : No other hazardous reactions known. | |
| 10.4. Conditions to avoid | | |
| Conditions to avoid | : See section 7. | |
| 10.5. Incompatible materials | | |



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Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known. products

TOXICOLOGICAL INFORMATION SECTION 11

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation Acute toxicity : Calculated LC50: > 7,066 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness. Corrosion/irritation : Not classified - based on available data, the classification criteria are not met. Sensitisation : Not classified - based on available data, the classification criteria are not met. Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met. Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met. Skin contact Acute toxicity : Calculated LD50: > 3607 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin. Sensitisation Not classified - based on available data, the classification criteria are not met. Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met. Eve contact Corrosion/irritation : Irritant. Ingestion Acute toxicitv : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met. Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met. Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met. Toxicological information:

| Chemical name | Property | | Method | Test animal |
|-----------------|-------------------------|------------------|----------|-------------|
| 2-Butoxyethanol | Eye irritation | Irritant | OECD 405 | Rabbit |
| | LC50 (inhalation) | 2200 mg/m3 | OECD 403 | Rat |
| | LD50 (dermal) | 435 mg/kg bw | OECD 402 | Rabbit |
| | NOAEL (inhalation) | 152 mg/m3 | OECD 413 | Rat |
| | NOAEL (fertility, oral) | 720 mg/kg bw/d | | |
| | Genotoxicity - in vitro | Not genotoxic | | |
| | NOEL (carcinogenicity, | Not carcinogenic | | |
| | oral) | - | | |
| | LD50 (oral) | 1746 mg/kg bw | OECD 401 | Rat |
| | NOAEL (dermal) | > 150 mg/kg bw/d | OECD 411 | Rabbit |
| | Genotoxicity - in vivo | Not genotoxic | OECD 474 | Mouse |



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| Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
|---------------------|------------------|----------|------------------------|
| NOAEL (development, | > 100 mg/kg bw/d | OECD 414 | Rat |
| oral) | | | |
| Skin irritation | Irritant | OECD 404 | Rabbit |
| NOAEL (oral) | < 69 | OECD 408 | Rat |
| Skin sensitisation | Not sensitizing | OECD 406 | Guinea pig |

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

No ecotoxicological research has been carried out on this product.

: Calculated LC50 (fish): 5079 mg/l. Calculated EC50 (waterflea): 3229 mg/l. Contains < 1 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Persistence - degradability : No specific information known.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility

: If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

12.6. Other adverse effects

Other information : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| Product residues | : Do not dispose empty pack with waste produced by households. Containers should be recycled or re-used. Treat product residues and non-empty pack as hazardous waste. |
|--------------------------|--|
| Additional warning | : None. |
| Waste water discharge | : Avoid discharge of waste water arising from tank cleaning to the environment. |
| European waste catalogue | : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot. |
| Local legislation | : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with. |

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr.

: None.

Product name Date of issue

: 18-05-2015



Class

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14.2. UN proper shipping name

Transport name : Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

| Class | : This product is not classified according to ADR/RID/ADN. |
|------------------|--|
| IMDG (sea) | |
| Class | : This product is not classified according to IMDG. |
| Marine pollutant | : No |
| IATA (air) | |

14.6. Special precautions for user

Other information : Country specific variations may apply.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

| Marpol | Not intended to be carried in bulk according to International Maritime Organisation (IMO) |
|--------|---|
| | instruments. |

SECTION 15 REGULATORY INFORMATION

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

: This product is not classified according to IATA.

| Community regulations | : Regulation (EC) No 830/2015 (REACH), Regulation (EC) No 1272/2008 (CLP) and other |
|-----------------------|---|
| | regulations. |

15.2. Chemical safety assessment

| Chemical safety | : Not applicable. |
|-----------------|-------------------|
| assessment | |

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 830/2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of H-phrases mentioned in section 3:

| H302 | Harmful if swallowed. |
|------|--|
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| | |



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| H332 | Harmful if inhaled. | | |
|--|---|--|--|
| H335 | May cause respiratory irritation. | | |
| Full text of hazard classes r | Full text of hazard classes mentioned in section 3: | | |
| Acute Tox. 4 | : Acute toxicity, category 4. | | |
| Skin Corr. 1B | : Skin corrosive, category 1B. | | |
| Skin Irrit. 2 | : Skin irritation, category 2. | | |
| Eye Irrit. 2 | : Eye irritation, category 2. | | |
| List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet: | | | |
| ATE | Acute Toxicity Estimate | | |
| BCF | Bioconcentration factor | | |
| DNEL | Derived no-effect level | | |
| ECETOC TRA | European centre for ecotoxicology and toxicology of chemicals. Targeted risk assessment | | |
| EU | European Union | | |
| EUSES | European Union System for the Evaluation of Substances | | |
| IBC code | Intermediate Bulk Container | | |
| LD50 LC50 | Lethal Dose/Concentration for 50% of a population | | |
| NOAEL | No Observed (Adverse) Effect Level | | |
| NOEC | No observed effect concentration | | |
| OEL | Occupational exposure limit | | |
| PBT | Persistent, Bioaccumulative and Toxic | | |
| PC | Chemical product category | | |
| PNEC | Predicted no-effect concentration | | |
| STP | Sewage Treatment Plant | | |
| SU | Sector of Use | | |
| SVHC | Substance of very high concern | | |
| TWA/STEL | Time-Weighted Average/Short Term Exposure Limit | | |
| vPvB | Very Persistent and Very Bioaccumulative | | |
| Number format | : "," used as decimal separator. | | |
| | | | |

Date of fifth issue