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| | | | |

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

1.1 Product identifier POLYWASH 5000

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

Product Categories [PC]

PC9 - Coatings and paints, fillers, putties, thinners

PC35 - Washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Kluthe Benelux B.V.

Street : Produktieweg 8

Postal code/city: NL 2404 CC ALPHEN AAN DEN RIJN

Telephone : +31 (0)172 - 516000

Telefax: +31 (0)172 - 439494

E-mail (competent person): sds@kluthe.nl

1.4 Emergency telephone number

NL - Nationaal Vergiftigingen Informatie Centrum NVIC - Bilthoven + 31 30 274 88 88 (Uitsluitend bereikbaar voor een behandelend arts in geval van een accidentele vergiftiging) // BE - Antigifcentrum - Brussel + 32 70 245 245 (een arts beantwoordt uw oproep) // BE - Centre Anti-poison - Bruxelles + 32 70 245 245 (un médecin répondra à votre appel). // D - Antigifcentrum (Duitsland - Berlin) : +49 30 450 653565 // S - Swedish Poisons Information Center 112 begär Giftinformationscentralen // UK - Ricardo-AEA (UK) : +44 (0)870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

May cause harm to the unborn child. \cdot Irritating to eyes, respiratory system and skin. Repr. Cat. 2 ; R 61 \cdot Xi ; R 36/37/38

Classification according to Regulation (EC) No. 1272/2008 [CLP] Hazard classes and hazard categories Flam. Liq. 4 · Skin Irrit. 2 · Eye Irrit. 2 · STOT SE 3 · Repr. 1B Physical hazards Flammable Liquids : Category 4 **Health hazards** Skin Corrosion / Irritation : Category 2 Serious eye damage / eye irritation : Category 2A Specific target organ toxicity (single exposure) : No Specific target organ toxicity (Respiratory tract irritation): Category 3 Specific target organ toxicity (Narcosis) : No Aspiration hazard : No Sensitisation (Respiratory): No Sensitisation (Skin): No Reproductive toxicity : Category 1B Fertility : - / Unborn child : 1 Reproductive toxicity, Effects on or via lactation : No Specific target organ toxicity (Repeated exposure): No Flam. Liq. 4 · Skin Irrit. 2 · Eye Irrit. 2 · STOT SE 3 · Repr. 1B

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Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2A ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Repr. 1B ; H360D - Reproductive toxicity : Category 1B ; May damage the unborn child.

STOT SE 3 ; H335 - Specific target organ toxicity (single exposure) : Category 3 ; May cause respiratory irritation.

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations



T ; Toxic Hazard components for labelling

N-METHYL-2-PYRROLIDONE ; CAS No. : 872-50-4

R-phrases

| K-pillases | |
|------------|---|
| 61 | May cause harm to the unborn child. |
| 36/37/38 | Irritating to eyes, respiratory system and skin. |
| S-phrases | |
| 53 | Avoid exposure - obtain special instructions before use. |
| 35 | This material and its container must be disposed of in a safe way. |
| 36/37 | Wear suitable protective clothing and gloves. |
| 27/28 | After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of (to be specified by the manufacturer). |
| 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word Danger Hazard components for labelling N-METHYL-2-PYRROLIDONE ; CAS No. : 872-50-4 Hazard statements May damage the unborn child. H360.F0D1 H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P308/313 If exposed or concerned: Get medical advice/attention. P403/233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

Remark

2.3 Other hazards

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None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

4-HYDROXY-4-METHYLPENTAN-2-ONE ; REACH registration No. : 01-2119473975-21-xxxx ; EC No. : 204-626-7; CAS No. : 123-42-2 Weight fraction : 25 - 50 % Classification 67/548/EEC : Xi; R36 Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Irrit. 2 ; H319 REACTION MIXTURE OF DIMETHYL ADIPATE, - GLUTARATE AND - SUCC INATE ; REACH registration No. : 01-2119475445-32; EC No.: 906-170-0 Weight fraction : 10 - 25 % Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 N-METHYL-2-PYRROLIDONE ; REACH registration No. : 01-2119472430-46-xxxx ; EC No. : 212-828-1; CAS No. : 872-50-4 Weight fraction : 10 - 25 % Classification 67/548/EEC : Repr. Cat.2 ; R61 Xi ; R36/37/38 Classification 1272/2008 [CLP] : Repr. 1B ; H360.F0D1 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 2-BUTOXYETHYL ACETATE ; REACH registration No. : 01-2119475112-47-xxxx ; EC No. : 203-933-3; CAS No. : 112-07-2 Weight fraction : 2,5 - 10 % Classification 67/548/EEC : Xn: R20/21 Classification 1272/2008 [CLP] : Acute Tox. 4 ; H312/332 BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36-xxxx ; EC No. : 203-905-0; CAS No. : 111-76-2 Weight fraction : 2.5 - 10 % Classification 67/548/EEC : Xn; R20/21/22 Xi; R36/38 Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302/312/332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice. Change contaminated, saturated clothing. For further information refer to chapter 11 (Toxicological information).

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.

In case of skin contact

Water and soap Do not wash with: Solvents/Thinner

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Keep at rest.

Self-protection of the first aider

No direct artificial respiration to be given by first aider.

4.2 Most important symptoms and effects, both acute and delayed

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No information available.

4.3 Indication of any immediate medical attention and special treatment needed None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO2) Extinguishing powder Water mist

Unsuitable extinguishing media

Strong water jet

- 5.2 Special hazards arising from the substance or mixture None
- 5.3 Advice for firefighters

None

5.4 Additional information

Cool endangered containers with water in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate respiratory protection. Keep away from ignition sources on account of the organic solvent content and ventilate room. Do not inhale vapours. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For cleaning up

Suitable material for diluting or neutralizing:

Other information

Clear spills immediately.

6.4 Reference to other sections

See sections 8 &13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not smoke, eat or drink in places where this product is used. Comply with the health and safety at work laws.

Protective measures

Do not breathe gas/fumes/vapour/spray. Wear personal protection equipment (see chapter 8).

Measures to prevent fire

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of ignition. - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from oxidizing agents, and from strong alkaline and strong acid materials.

Requirements for storage rooms and vessels

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Keep container tightly closed. Hints on joint storage Storage class: 6.1A Storage class (TRGS 510): 6.1C Further information on storage conditions Keep only in the original container in a cool, well-ventilated place. 7.3 Specific end use(s) None **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters **Occupational exposure limit values** Applicable OEL-values: Specification : Value : Source: National OEL-lists. Version date : 4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2 Limit value type (country of origin) : Maximum limit in the atmosphere at the workplace (D) 20 ppm / 96 mg/m³ Limit value : Peak limitation : 2(I) Remark : н Version : 01-09-2012 N-METHYL-2-PYRROLIDONE ; CAS No. : 872-50-4 Limit value type (country of origin) : Maximum limit in the atmosphere at the workplace (D) 20 ppm / 82 mg/m³ Limit value : Peak limitation : 2(1)Remark : H,Y 01-09-2012 Version : Limit value type (country of origin) : STEL (EC) 20 ppm / 80 mg/m³ Limit value : Peak limitation : н 17-12-2009 Version : Limit value type (country of origin) : TWA (EC) 10 ppm / 40 mg/m 3 Limit value : Peak limitation : н Version : 17-12-2009 2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2 Limit value type (country of origin) : Maximum limit in the atmosphere at the workplace (D) Limit value : 20 ppm / 130 mg/m³ Peak limitation : 4(II) Remark : H,Y Version : 01-09-2012 Limit value type (country of origin): STEL (EC) Limit value : 50 ppm / 333 mg/m³ Remark : н Version: 08-06-2000 Limit value type (country of origin) : TWA (EC) Limit value : 20 ppm / 133 mg/m³ Remark : н Version : 08-06-2000 BUTYL CELLOSOLVE ; CAS No. : 111-76-2 Limit value type (country of origin) : Maximum limit in the atmosphere at the workplace (D) 20 ppm / 98 mg/m³ Limit value : Peak limitation : 4(II)

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|---|---|-------------------|--------------------------|-----------------------------|---------------------|
| Remark : | | H,Y | | | |
| Version : | | 01-09-2012 | | | |
| | e (country of origin) : | • • | | | |
| Limit value : Remark : | | 50 ppm / 240 H | s mg/m² | | |
| Version : | | п 08-06-2000 | | | |
| | e (country of origin) : | | | | |
| | e (country of origin). | 20 ppm / 98 | ma/m ³ | | |
| Remark : | | Н | ing/in | | |
| Version : | | 08-06-2000 | | | |
| Biological li | mit values | | | | |
| | ACETATE ; CAS No. | 112-07-2 | | | |
| | e (country of origin) : | | | | |
| Parameter : | | . , | id / Urine (U) / At long | g term exposure: after seve | ral previous shifts |
| Limit value : | | 100 mg/l | | ····· | · · · · · · · |
| Version : | | 31-03-2004 | | | |
| BUTYL CELLOSO | LVE ; CAS No. : 111-7 | 6-2 | | | |
| Limit value type | e (country of origin) : | TRGS 903 (D) | | | |
| Parameter : | | Butoxy acetic a | id / Urine (U) / At long | g term exposure: after seve | ral previous shifts |
| Limit value : | | 100 mg/l | | | |
| Version : | | 31-03-2004 | | | |
| 8.2 Exposure cor | ntrols | | | | |
| Personal pro | otection equip | nent | | | |
| Eye/face p | | | | | |
| | ing safety glasses. | | | | |
| | 5 , 5 | | | | |

Skin protection

Hand protection

Solvent-resistent protective gloves must be worn. Barrier creams may help to protect the exposed areas of the skin. They should however not be applied once exposure has occurred. There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Suitable material : Butyl caoutchouc (butyl rubber)

Breakthrough time (maximum wearing time) : 480 min

Thickness of the glove material : 0,7 mm

Body protection

Personel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

Suitable respiratory protection apparatus

Filtering device (DIN EN 147) Filtering device with filter or ventilator filtering device of type: A

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Safety relevant basis data

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|---|---|----------------------|-------------------|
| | | | |

| Physical state : | | | Liquid | |
|-------------------------|------------|---|----------------------|-------------------|
| Colour: | | | Colourless | |
| Odour: | | | Like organic solvent | |
| Store frost free | | | No | |
| Melting point / range : | (1013 hPa) | | -30 | °C |
| Boiling point / range : | (1013 hPa) | | 150 - 225 | °C |
| Flash point : | | | 65 | °C |
| Ignition temperature : | | | 240 | °C |
| Lower explosion limit : | | > | 0,9 | Vol-% |
| Upper explosion limit : | | < | 10,6 | Vol-% |
| Density : | (20 °C) | | 0,968 - 0,978 | g/cm ³ |
| Solubility in water : | (20 °C) | | 74,5 | Wt % |
| | | | | |

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

- 10.2 Chemical stability
 - No information available.

10.3 Possibility of hazardous reactions No information available.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials

Keep away from oxidizing agents, strong alkaline and strongl acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the preparation itself. Reapeted or prolonged contact with the product may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. If the liquid splashes in the eyes it may cause irritation and reversible damage.

SECTION 12: Ecological information

Do not empty into water courses or drains.

12.1 Toxicity

No information available.

12.2 Persistence and degradability No information available.

- **12.3 Bioaccumulative potential** No information available.
- **12.4 Mobility in soil** No information available.
- **12.5 Results of PBT and vPvB assessment** No information available.

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12.6 Other adverse effects

No information available.

12.7 Further ecological information

12.8 Overall evaluation

No environmental risks of preparations are available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

In accordance with local official regulations treat in a watertreatment or discharge to a waste disposal company.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code (91/689/EEC) : 11 01 11*

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

^{15.1} Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Water hazard class (WGK)

Class: 1 (Slightly hazardous to water) Classification according to VwVwS

International regulatory information

This product contains max.: 809 g/I VOC

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

15.3 Additional information

This product contains a substance which is included in the candidate list of substances of very high concern in accordance with Article 59(10) of the REACH Regulation. For more information, please refer to the ECHA website http://echa.europa.eu/.

SECTION 16: Other information

16.1 Indication of changes

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03. Hazardous ingredients

16.2 Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3 Key literature references and sources for data

None

16.5 Relevant R-phrases (Number and full text)

| Flammable liquid and vapour. |
|---|
| Harmful if swallowed. |
| Harmful if swallowed, in contact with skin or if inhaled. |
| Harmful in contact with skin or if inhaled. |
| Causes skin irritation. |
| Causes serious eye irritation. |
| May cause respiratory irritation. |
| May damage the unborn child. |
| Harmful by inhalation and in contact with skin. |
| Harmful by inhalation, in contact with skin and if swallowed. |
| Irritating to eyes. |
| Irritating to eyes, respiratory system and skin. |
| Irritating to eyes and skin. |
| May cause harm to the unborn child. |
| |

16.6 Training advice

None

16.7 Additional information

We have no knowledge or control over the user's working conditions however. The user is responsible for the observance of all required statutory provisions. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.