

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : POLYWASH 3000
Revision date : 30.04.2015 Version (Revision) : 103.1.0 (103.0.0)
Print date : 30-04-2015

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

1.1 Product identifier

POLYWASH 3000

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

Irritating to eyes.

Xi ; R 36

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

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.

2.2 Label elements

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

Hazard symbols and hazard statements of dangerous substances and preparations



Xi ; Irritant

R-phrases

36 Irritating to eyes.

S-phrases

35 This material and its container must be disposed of in a safe way.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

25 Avoid contact with eyes.

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

Hazard pictograms

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Exclamation mark (GHS07)

Signal word

Warning

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P264 Wash face, hands and exposed skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P321 Specific treatment (see first aid instructions on this label and / or section 4 of the safety data sheet).
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

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 : $\geq 50 - < 100$ %
Classification 67/548/EEC : Xi ; R36
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Irrit. 2 ; H319

BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36-xxxx ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : $\geq 10 - < 20$ %
Classification 67/548/EEC : Xn ; R20/21/22 Xi ; R36/38
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 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).

Following 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

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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

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 (refer to section 8).

Measures to prevent fire

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Vapours can 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

Keep container tightly closed.

Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 10

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)

Limit value : 20 ppm / 96 mg/m³

Peak limitation : 2(I)

Remark : H

Version : 02-04-2014

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : Maximum limit in the atmosphere at the workplace (D)

Limit value : 20 ppm / 98 mg/m³

Peak limitation : 4(II)

Remark : H,Y

Version : 02-04-2014

Limit value type (country of origin) : STEL (EC)

Limit value : 50 ppm / 246 mg/m³

Remark : H

Version : 08-06-2000

Limit value type (country of origin) : TWA (EC)

Limit value : 20 ppm / 98 mg/m³

Remark : H

Version : 08-06-2000

Biological limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 903 (D)

Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts

Limit value : 100 mg/l

Version : 31-03-2004

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL/DMEL (Industrial) (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)

Exposure route : Inhalation

Exposure frequency : Short-term exposure- Local effects

Limit value : 240 mg/m³

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Limit value type : DNEL/DMEL (Industrial) (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Inhalation
Exposure frequency : Long- term exposure- Local effects
Limit value : 66,4 mg/m³

Limit value type : DNEL/DMEL (Industrial) (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Inhalation
Exposure frequency : Long-term exposure- Systemic effects
Limit value : 66,4 mg/m³

Limit value type : DNEL/DMEL (Industrial) (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Dermal
Exposure frequency : Long-term exposure- Systemic effects
Limit value : 9,4 MG/KG Body weight/day

Limit value type : DNEL/DMEL (Consumer) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : 44,5 mg/kg
Safety factor : 1 Dagen

Limit value type : DNEL/DMEL (Consumer) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 426 mg/m³

Limit value type : DNEL/DMEL (Consumer) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Oral
Exposure frequency : Short-term (acute)
Limit value : 13,4 mg/kg
Safety factor : 1 Dagen

Limit value type : DNEL/DMEL (Consumer) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term exposure- Local effects
Limit value : 123 mg/m³

Limit value type : DNEL/DMEL (Consumer) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 38 mg/kg
Safety factor : 1 Dagen

Limit value type : DNEL/DMEL (Consumer) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 49 mg/m³

Limit value type : DNEL/DMEL (Consumer) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 3,2 mg/kg
Safety factor : 1 Dagen

Limit value type : DNEL/DMEL (Industrial) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : 89 mg/kg
Safety factor : 1 Dagen

Limit value type : DNEL/DMEL (Industrial) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 663 mg/m³

Limit value type : DNEL/DMEL (Industrial) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term exposure- Systemic effects

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Limit value : 246 mg/m³
Limit value type : DNEL/DMEL (Industrial) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 75 mg/kg
Safety factor : 1 Dagen
Limit value type : DNEL/DMEL (Industrial) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 98 mg/m³

PNEC

Limit value type : PNEC (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Süßwasser
Limit value : 2 mg/l
Limit value type : PNEC (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Marine water
Limit value : 0,2 mg/l
Limit value type : PNEC (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Fresh water deposition
Limit value : 9,06 mg/kg
Limit value type : PNEC (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Seawater deposition
Limit value : 0,91 mg/kg
Limit value type : PNEC (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Soil
Limit value : 0,63 mg/kg
Limit value type : PNEC (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Water waste treatment
Limit value : 82 mg/l
Limit value type : PNEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Süßwasser
Limit value : 8,8 mg/l
Limit value type : PNEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Marine water
Limit value : 8,8 mg/l
Limit value type : PNEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Fresh water deposition
Limit value : 8,14 mg/kg
Limit value type : PNEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Soil
Limit value : 2,8 mg/kg

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Use tightly fitting safety glasses.

Skin protection

Hand protection

Solvent-resistant 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.

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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

DIN EN 12942:2009-02 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

Colour: Colourless

Odour: Characteristic

Safety relevant basis data

Physical state :			Liquid
Store frost free			No
Melting point / range :	(1013 hPa)	<	-20 °C
Boiling point / range :	(1013 hPa)		100 - 175 °C
Flash point :			68,5 °C
Ignition temperature :			200 °C
Lower explosion limit :		>	2,9 Vol-%
Upper explosion limit :		<	12,1 Vol-%
Vapour pressure :	(20 °C)		0,92 kPa
Density :	(20 °C)		0,95 - 0,96 g/cm ³
Solubility in water :	(20 °C)		Completely miscible

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 strong 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. Repeated or prolonged contact with the product may cause

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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.

Acute effects

Acute oral toxicity

Parameter : LD50 (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Oral
Species : Rat
Effective dose : = 3002 MG/KG Body weight/day
Parameter : LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Oral
Species : Rat
Effective dose : 1480 mg/kg

Acute dermal toxicity

Parameter : LD50 (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Dermal
Species : Rat
Effective dose : => 1875 MG/KG Body weight/day
Exposure time : 24 h

Acute inhalation toxicity

Parameter : LC0 (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Exposure route : Inhalation
Species : Rat
Effective dose : => 7,6 mg/l
Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Species : Rat
Effective dose : 500 ppm
Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Species : Mouse
Effective dose : 700 ppm

SECTION 12: Ecological information

Do not empty into water courses or drains.

12.1 Toxicity

Aquatic toxicity

Acute (short-term) algae toxicity

Parameter : EC50 (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 1000 mg/l
Exposure time : 48 h
Parameter : EC50 (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Species : Selenastrum capricornutum
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 1000 mg/l
Exposure time : 72 h
Parameter : EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 24 h
Parameter : EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Desmodesmus subspicatus

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Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 7 Dagen

Chronic (long-term) algae toxicity

Parameter : NOEC (4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS No. : 123-42-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 100 mg/l
Exposure time : 21 Dagen

12.2 Persistence and degradability

Biodegradation

Analytical method : Biodegradation (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Parameter : Biodegradation
Degradation rate : > 70 %
Time : 28 Dagen

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.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

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

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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.: 842 g/l VOC

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements

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-, H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36	Irritating to eyes.
36/38	Irritating to eyes and skin.

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.