

Safety Data Sheet

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



Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Primox Plus

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

Relevant identified uses

Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

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

RMB GmbH

Street : Königsstraße 3

Postal code/city : 32584 Löhne

Telephone : 05732 6880535

Telefax : 05732 9110061

Information contact : service@rmb-solutions.com

1.4 Emergency Telephone Number

05732/ 688 05 35 during normal office hours

2. Hazards identification

2.1 Classification of the substance or mixture

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

Vapours may cause drowsiness and dizziness.

R 67

2.2 Label elements

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

R-phrases

67 Vapours may cause drowsiness and dizziness.

S-phrases

36 Wear suitable protective clothing.

7 Keep container tightly closed.

Additional information

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

1-METHOXY-2-PROPANOL ; EC No : 203-539-1; CAS No. : 107-98-2

Weight fraction : 10 - 25 %

Classification 67/548/EEC : R10 R67

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

PROPAN-2-OL ; EC No : 200-661-7; CAS No. : 67-63-0

Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

Weight fraction : 5 - 10 %
Classification 67/548/EEC : F ; R11 Xi ; R36 R67
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336
1-PROPOXY-2-PROPANOL ; EC No : 216-372-4; CAS No. : 1569-01-3
Weight fraction : 1 - 5 %
Classification 67/548/EEC : R10 Xi ; R36/37/38
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335
BUTYL CELLOSOLVE ; EC No : 203-905-0; CAS No. : 111-76-2
Weight fraction : 1 - 5 %
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
2-METHOXYPROPANOL ; EC No : 216-455-5; CAS No. : 1589-47-5
Weight fraction : < 0,5 %
Classification 67/548/EEC : R10 Repr. Cat.2 ; R61 Xi ; R41 Xi ; R37/38
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Repr. 1A ; H360.FOD1 Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335

Additional information

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

4. First aid measures

4.1 Description of first aid measures

After inhalation

Remove casualty to fresh air and keep warm and at rest.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

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

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam. Extinguishing powder. Carbon dioxide (CO₂). Sand. Nitrogen. Extinguishing blanket

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂). Sulphur oxides

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Before discharge into sewage plants the product normally needs to be neutralised.

6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water.

6.4 Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

7. Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against Frost.

Hints on storage assembly

Storage class : 10

7.3 Specific end use(s)

None

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 370 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 02.07.2009

Limit value type (country of origin) : STEL (EC)
Limit value : 150 ppm / 568 mg/m³
Remark : H
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 375 mg/m³
Remark : H
Version : 08.06.2000

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 200 ppm / 500 mg/m³
Peak limitation : 2(II)
Remark : Y
Version : 02.07.2009

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

Limit value type (country of origin) : TRGS 900 (D)

Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

Limit value : 20 ppm / 98 mg/m³
Peak limitation : 4(II)
Remark : H,Y
Version : 02.07.2009
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
2-METHOXYPROPANOL ; CAS No. : 1589-47-5
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 5 ppm / 19 mg/m³
Peak limitation : 8(II)
Remark : H, Z
Version : 02.07.2009

Biological limit values

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Acetone / Whole blood (B) / End of exposure or end of shift
Limit value : 50 mg/l
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Acetone / Urine (U) / End of exposure or end of shift
Limit value : 50 mg/l
Version : 31.03.2004

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

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Butoxy acetic acid / Urine (U) / at longterm exposure: after several previous shifts
Limit value : 100 mg/l
Version : 31.03.2004

8.2 Exposure controls

Personal protective equipment

Eye / face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection

Safety goggles acc. EN 166.

Skin protection

Hand protection



Wear protective gloves in case of longer lasting skin contact.

Suitable gloves type : EN 374.

Suitable material : NBR (Nitrile rubber).

Breakthrough time (maximum wearing time) : 480 min.

Safety Data Sheet

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



Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

Thickness of the glove material : 0.4 mm

Remark : The exact break trough time has to be requested from the protective glove manufacturer and limits has to be ensured.

Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Combination filtering device (DIN EN 141)

General health and safety measures

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately.

8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Physical state :			liquid
Colour :			light
Odour :			typical
Solidifying point :	(1013 hPa)	ca.	-15 °C
Boiling temperature / boiling range :	(1013 hPa)	ca.	98 °C
Flash point :		ca.	50 °C
Lower explosion limit :			No data available
Upper explosion limit :			No data available
Vapour pressure :	(50 °C)		not relevant
Density :	(20 °C)	ca.	0,99 g/cm ³
pH value :		ca.	13
Maximum VOC content (EC) :			34 Wt %
Maximum VOC content (Switzerland) :			34 Wt %

9.2 Other information

None

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

No information available.

10.5 Incompatible materials

Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

No information available.

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO₂).

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	2500 mg/kg
Parameter :	LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	1480 mg/kg
Parameter :	LD50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	5660 mg/kg
Parameter :	LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	5050 mg/kg

Acute dermal toxicity

Parameter :	LD50 (1-PROPOXY-2-PROPANOL ; CAS No. : 1569-01-3)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	3550 mg/kg
Parameter :	LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	400 mg/kg
Parameter :	LD50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	9999,99 mg/kg
Parameter :	LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	12800 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	1 - 5 mg/l
Exposure time :	4 h
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

Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

Species : Mouse
Effective dose : 700 ppm

Irritant and corrosive effects

slightly irritant but not relevant for classification.

11.4 Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

12. Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 1700 mg/l
Exposure time : 96 h
Parameter : LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Fish
Effective dose : 4200 - 11100 mg/l
Exposure time : 96 h
Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Lepomis macrochirus (Bluegill)
Effective dose : > 100 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Daphnia magna (Big water flea)
Effective dose : 1800 mg/l
Exposure time : 24 h

Acute (short-term) algae toxicity

Parameter : EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Selenastrum capricornutum
Effective dose : 911 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. With the disposing into sewage systems ensure a neutral pH-value of the medium.

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 Further ecological information

Safety Data Sheet

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



Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

None

13. Disposal considerations

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes / waste designations according to EWC / AVV

Waste code product

07 06 04* - other organic solvents, washing liquids and mother liquors.

20 01 29* - detergents containing dangerous substances.

Waste code packaging

15 01 02 - plastic packaging.

Waste treatment options

Appropriate disposal / Package

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

14. Transport information

14.1 UN number

No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous good in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous good in sense of this transport regulation.

14.4 Packing group

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards

No dangerous good in sense of this transport regulation.

14.6 Special precautions for user

None

15. Regulatory information

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

EU legislation

Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

< 5 % non-ionic surfactants

National regulations

AT: Kennzeichnung erfolgt nach österreichischen Vorschriften (Chemikaliengesetz/ChemV).

CH: Chemikalienverordnung (ChemV) und Chemikalien-Risikoreduktions-Verordnung (Chem

Safety Data Sheet

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



Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1

RRV) sind zu beachten.

Restrictions of occupation

22 JArbSchG.
4 MuSchRiV.

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

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

Other regulations, restrictions and prohibition regulations

VbF-Class : -

15.2 Chemical safety assessment

No information available.

16. Other information

16.1 Indication of changes

09. Information on basic physical and chemical properties

16.2 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)

AOX: adsorbable organohalogenes

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification Labelling and Packaging (Regulation (EC) No. 1272/2008)

EAK / AVV: europäischer Abfallschlüsselkatalog (european waste catalogue)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

RCP: reciprocal calculation procedure

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: volatile organic compound

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse (water hazardous class)

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

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

STOT SE 3 ; H336 - Specific target organ toxicity (single exposure) : Category 3 ; May cause drowsiness or dizziness.

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

Hazard pictograms

Trade name : Primox Plus
Revision date : 14.02.2013
Date of print : 12.09.2014

Version : 1.0.1



Exclamation mark (GHS07)

Signal word

Warning

Hazard Statements

H336 May cause drowsiness or dizziness.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P403/233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to ...

16.5 Relevant R-, H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360.F0D1	May damage the unborn child.
10	Flammable.
11	Highly flammable.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
36/38	Irritating to eyes and skin.
37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
61	May cause harm to the unborn child.
67	Vapours may cause drowsiness and dizziness.

16.6 Training advice

None

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.