

SURVOS Standard

Version 2.0 | Print Date: 18.10.2011 | Revision Date: 14.10.2011



SURVOS
STANDARD

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

1.1. Product identifier

Trade name: Survos Standard

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

Use of the Substance/Mixture: At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Recommended restrictions on use: At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet

Company: HPM Technologie GmbH
Rudolf-Diesel-Str. 3
DE 72525 Münsingen
Telefon : +49 (0)7381-9344-0
Telefax : +49 (0)7381-9344-88
Email-address : info@hpmtechnologie.de

Responsible/issuing Person: Environment / Qualitymanagement

1.4. Emergency telephone number

Emergency telephone number: +49 (0)208-7828-0 (available: 24h/7d)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Harmful (Xn)	R65
	R66

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2. Label elements

Labelling according to EC Directives 67/548/EEC or 1999/45/ECG

Hazard symbols:



Harmful

R-phrase(s):	R65	Harmful: may cause lung damage if swallowed.
	R66	Repeated exposure may cause skin dryness or cracking
S-phrase(s):	S23	Do not breathe gas/fumes/vapour/spray.
	S24	Avoid contact with skin.
	S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazardous components which must be listed on the label:

- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazardous components which must be listed on the label:

- Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

3. Composition/information on ingredients

3.1. Mixtures

Chemical nature:

Preparation consisting of the following components.
Mixture of hydrocarbons (n-, i- and cyclo aliphates with a predominantly chain length C10-C12)
Benzene content < 0.1%.

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Hazardous Components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EWG)	
		Hazard class / Hazard Category	Hazard Statements		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics					
EC-Nr.	: 918-481-9		Asp. Tox. 1	H304	Xn; R65, R66
Registration	01-2119457273-39-xxxx	>=25 - < 50			
Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics					
EC-Nr.	: 918-317-6		Asp. Tox. 1	H304	Xn; R65, R66
Registration	01-2119474196-32-xxxx	>=25 - < 50			
2-(2-butoxyethoxy)ethanol					
INDEX-No.	: 603-096-00-8		Eye Irrit.2	H319	Xi; R36
CAS-No.	: 112-34-5				
EC-No.	: 203-961-6	>=7 - < 10			
C&L-No.	: 02-2119751533-40-0000				

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

General advice:	Move out of dangerous area. Take off all contaminated clothing immediately.
If inhaled:	Move to fresh air. Oxygen, if needed. Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.
In case of skin contact:	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
In case of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult a physician.
If swallowed:	Rinse mouth with water. Do NOT induce vomiting. Risk of aspiration! Call a physician immediately. If a person vomits when lying on his back, place him in the recovery position.

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

Symptoms:	drowsiness, Drowsiness
Effects:	Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary oedema and pneumonitis.

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

Treatment: Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting: Combustible liquid. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

Further information: Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray.

6.2. Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid subsoil penetration. If material reaches soil inform authorities responsible for such cases.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Treat recovered material as described in the section „Disposal considerations“.

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6.4. Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Provide sufficient air exchange and/or exhaust in work rooms. Vapours are heavier than air and may spread along floors. Avoid contact with skin, eyes and clothing.

Hygiene measures: Take off all contaminated clothing immediately. Do not breathe gas/fumes/vapour/spray. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep in an area equipped with solvent resistant flooring. Store in cool place. Keep container tightly closed in a dry and well ventilated place.

Advice on protection against fire and explosion: Combustible liquid; Possible formation of ignitable mixtures in air if heated above flash point and/or if sprayed (atomised). Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Advice on common storage: Keep away from oxidizing agents.

German storage class: 3B Combustible Liquids

7.2. Specific end uses

Specific use(s): No information available.

8. Exposure controls/personal protection

8.1. Control parameters

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Component:	2-(2-butoxyethoxy)ethanol	CAS-No. 112-34-5
Other OELs		

TRGS 900, AGW:

100 mg/m³, (1)

If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).

EU ELV, Time Weighted Average (TWA):

10 ppm, 67,5 mg/m³

Indicative

EU ELV, Short Term Exposure Limit (STEL):

15 ppm, 101,2 mg/m³

Indicative

Component:	C9-C15 Aliphatics
Other OELs	

TRGS 900, AGW:

600 mg/m³, (2(II))

Hydrocarbon mixtures, application as solvent (hydrocarbon solvent), additive-free

8.2. Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice:

Required, if exposure limit is exceeded (e.g. OEL).

Required if vapours or aerosol are released.

In case of intensive or longer exposure use self-contained breathing apparatus.

In case of brief exposure or low pollution use breathing filter apparatus.

Recommended Filter type:

Combination filter: A-P2

Hand protection

Advice:

Protective gloves

The following materials are suitable:

Nitrile rubber

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain,

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duration of contact).
Protective gloves should be replaced at first signs of wear.

Eye protection

Advice: Tightly fitting safety goggles

Skin and body protection

Advice: impervious clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid subsoil penetration.
If material reaches soil inform authorities responsible for such cases.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form:	liquid
Colour:	colourless
Odour:	like petrol
Odour Threshold:	no data available
pH:	not applicable
Freezing point:	no data available
Boiling point/boiling range:	180 - 235 °C
Flash point:	62 °C
Evaporation rate:	no data available
Flammability (solid, gas):	not auto-flammable
Upper explosion limit:	7 %(V)
Lower explosion limit:	0,5 %(V)
Vapour pressure:	0,5 hPa (20 °C) 6,0 hPa (50 °C)
Relative vapour density:	keine Daten verfügbar
Density:	0,796 g/cm ³ (20 °C)

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Water solubility:	not respectively poorly mixable
Partition coefficient: n-octanol/water:	no data available
Ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, dynamic:	no data available
Explosivity:	Formation of explosive air/vapour mixtures is possible.
Oxidizing properties:	None known.

9.2. Other information

No further information available.

10. Stability and reactivity

10.1. Reactivity

Advice: No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice: Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Formation of explosive air/vapour mixtures is possible.

10.4. Conditions to avoid

Conditions to avoid: Heat, flames and sparks.
Keep away from direct sunlight.

Thermal decomposition: no data available

10.5. Incompatible materials

Materials to avoid: Oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products: Fire may cause evolution of: Carbon oxides, Kohlenstoffoxide. Under certain fire conditions, traces of other toxic products cannot be excluded.

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Result: No skin irritation
Prolonged skin contact may defat the skin and produce dermatitis.

Eyes

Result: May have irritant effect on eyes

Sensitisation

Result: No sensitizing effect known.

Further information

Experience with human exposure: Even smallest amounts of product may cause pulmonary edema or pneumonia when absorbed into the lungs by swallowing or subsequent vomiting.

Component: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Acute toxicity**Oral**

LD50 > 5000 mg/kg (rat)
Data based on test results or data from a comparable product.

Inhalation

LC50 > 4951 mg/l (rat; vapour)
Data based on test results or data from a comparable product.

Dermal

LD50 > 5000 mg/kg (rabbit)
Data based on test results or data from a comparable product.

Component: Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics

Acute toxicity**Oral**

LD50 > 5000 mg/kg (rat) (OECD Test Guideline 401)
Aspiration may cause pulmonary oedema and pneumonitis.

Inhalation

LC50 > 5 mg/l (rat) (OECD Test Guideline 403)
Inhalation may cause central nervous system effects.

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LD50 > 5000 mg/kg (rat) (OECD Test Guideline 402)

Component: 2-(2-butoxyethoxy)ethanol**CAS-No.**
112-34-5**Acute toxicity****Oral**

LD50 3384 mg/kg (rat)

Dermal

LD50 2700 mg/kg (rabbit)

12. Ecological information**12.1. Toxicity****Component: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics****Acute toxicity****Fish**LL0 1000 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h)
(Toxicity to fish)**Toxicity to daphnia and other aquatic invertebrates.**EL0 1000 mg/l (Daphnia magna (Water flea); 48 h)
(Toxicity to daphnia)**algae**EL0 1000 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h)
(Toxicity to algae)**Component: Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics****Acute toxicity****Fish**LL50 > 1000 mg/l (Freshwater fish; 96 h) (Toxicity to fish; OECD Test
Guideline 203)**Toxicity to daphnia and other aquatic invertebrates.**EL50 > 1000 mg/l (Daphnia magna; 48 h) (Toxicity to daphnia; OECD
Test Guideline 202)**algae**EL50 > 1000 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h)
(Toxicity to algae; OECD Test Guideline 201)**Component: 2-(2-butoxyethoxy)ethanol****CAS-No.**
112-34-5**Acute toxicity****Fish**

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LC50 1300 mg/l (Lepomis macrochirus; 96 h)

Toxicity to daphnia and other aquatic invertebrates.

EC50 2850 mg/l (Daphnia; 24 h) (DIN 38412)

algaeNOEC > 100 mg/l (Desmodesmus subspicatus (green algae); 96 h)
(OECD Test Guideline 201)**Bacteria**

EC10 1170 mg/l (Pseudomonas putida; 16 h)

12.2. Persistence and degradability**Persistence and degradability****Persistence**Result: The product is insoluble and floats on water.
The product evaporates easily from water surface.**Biodegradability**

Result: Readily biodegradable

12.3. Bioaccumulative potential**Bioaccumulation**

Result: Bioaccumulation is not expected.

12.4. Mobility in soil**Mobilität**

Result: practically insoluble

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

Result: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects**Additional ecological information**

Result: Do not flush into surface water or sanitary sewer system.

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13. Disposal considerations

13.1. Waste treatment methods

- Product: Disposal together with normal waste is not allowed. Do not let product enter drains. Can be incinerated, when in compliance with local regulations.
- Contaminated packaging: Empty remaining contents. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion. Empty containers should be delivered to local recyclers for disposal or to the provider for their reutilization in case of being subject to a return and deposit system.
- European Waste Catalogue Number: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport information

Not dangerous goods for ADR, RID and IMDG.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG: Not applicable.

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15. Regulatory information

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

WGK (DE): Major Accident Hazard Legislation: WGK:1; slightly water endangering; WGK (DE); 13 Falls under the German StörfallV.

Other regulations: Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment

Currently we do not have any Information from our supplier about this.

16. Other information

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Aspiration hazard	Category 1	---	H304

Full text of R-phrases referred to under sections 2 and 3.

R36 Irritating to eyes.
 R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.

Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.
 H319 Causes serious eye irritation.

Further information

Other information: The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relation ship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.