



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

1.1. Product identifier

Trade name : Survos Rapid D

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

Use of the Substance/Mixture : industrial use

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : HPM Technologie GmbH
Paul-Lechler-Straße 21
DE- 72581 Dettingen
Telephone : +49 (0)7123-88039-10
Telefax : +49 (0)7123-88039-81
E-mail address : info@hpmtechnologie.de

1.4. Emergency telephone number

Emergency telephone number : +49 (0)201-6496-0
Available 24h/7d

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

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.

Most important adverse effects

Human Health : See section 11 for toxicological information.
Physical and chemical hazards : See section 9 for physicochemical information.
Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008



Hazard symbols :



Signal word :

Danger

Hazard statements :

H304

May be fatal if swallowed and enters airways.

Precautionary statements

Response :

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P331

Do NOT induce vomiting.

Storage :

P405

Store locked up.

Disposal :

P501

Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazardous components which must be listed on the label:

- Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical nature :

Preparation consisting of the following components.

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics				
EC-No. : 918-167-1	>= 50 - < 100	Flam. Liq.3 Asp. Tox.1	H226 H304	Harmful; Xn; R65 R66
(2-Methoxymethylethoxy)propanol				
CAS-No. : 34590-94-8	<10	---	---	---
EC-No. : 252-104-2				

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.

SECTION 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 :

Remove to fresh air. 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. If eye irritation persists, consult a specialist.
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	:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Effects	:	Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary oedema and pneumonitis.
4.3. Indication of any immediate medical attention and special treatment needed		
Treatment	:	Treat symptomatically.
SECTION 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. Vapours may form explosive mixtures with air. Fire may cause evolution of: Carbon oxides
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.
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions	:	Use personal protective equipment. Keep away from heat and sources of ignition. Keep away unprotected persons. 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). Keep in suitable, closed containers for disposal.
Further information	:	Treat recovered material as described in the section "Disposal considerations".



6.4. Reference to other sections

For personal protection see section 8.
See also section 13: Disposal Considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Advice on safe handling : Handle and open container with care. Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust in work rooms.
- Hygiene measures : Avoid contact with the skin and the eyes. Smoking, eating and drinking should be prohibited in the application area. Keep away from food, drink and animal feedingstuffs. Do not breathe gas/fumes/vapour/spray. 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. Provide sufficient air exchange and/or exhaust in work rooms.
- Advice on protection against fire and explosion : Combustible liquid; Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
- Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from heat. Keep away from direct sunlight. Keep away from sources of ignition - No smoking.
- Advice on common storage : Incompatible with oxidizing agents.
- German storage class : 10 Combustible liquids

7.3. Specific end use(s)

- Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	(2-Methoxymethylethoxy)propanol
	CAS-No. 34590-94-8
Other Occupational Exposure Limit Values	

TRGS 900, AGW:
50 ppm, 310 mg/m³, (1)

EU ELV, Time Weighted Average (TWA):
50 ppm, 308 mg/m³
Indicative

Component:	C9-C15 Aliphatics
Other Occupational Exposure Limit Values	

TRGS 900, AGW:
600 mg/m³, (2(II))
Hydrocarbon mixtures, application as solvent (hydrocarbon solvent), additive-free

8.2. Exposure controls

Appropriate engineering controls
Refer to protective measures listed in sections 7 and 8.

Personal protective equipment
Respiratory protection



Advice : In case of insufficient ventilation, wear suitable respiratory equipment.
Required, if exposure limit is exceeded (e.g. OEL). In case of intensive or longer
exposure use self-contained breathing apparatus.
In case of brief exposure or low pollution use breathing filter apparatus.
Combination filter: A-P2

Hand protection

Advice : Wear suitable gloves.
Protective gloves should be replaced at first signs of wear. As the product is a
mixture of several substances, the durability of the glove materials cannot be
calculated in advance and has to be tested before use.
The choice of an appropriate glove does not only depend on its material but
also on other quality features and is different from one producer to the other.
To achieve a sufficient splashguard (min. break through time 10 min - 60 min)
the following combination of gloves is recommended:
combination of HPPE laminated film (glove thickness: 0.062 mm) and a two-
layer glove consisting of nitrile rubber as coating material (glove thickness: 0.4
mm) and nylon as support material.

Eye protection

Advice : Goggles giving complete protection to the eyes

Skin and body protection

Advice : Protective work clothing

Protective measures

Advice : Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : liquid
Colour : colourless
Odour : characteristic
Odour Threshold : no data available
pH : no data available
Freezing point : no data available
Boiling point/boiling range : 170 - 225 °C
Flash point : 63 °C
Evaporation rate : no data available
Flammability (solid, gas) : no data available
Upper explosion limit : 10,4 %(V)



Lower explosion limit	:	0,6 %(V)
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Density	:	0,773 g/cm ³ (20 °C)
Water solubility	:	not respectively poorly mixable
Partition coefficient: n-octanol/water	:	no data available
Auto-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	:	no data available

9.2. Other information

No further information available.

SECTION 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 : Incompatible with oxidizing agents. Vapours may form explosive mixture with air.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid : Oxidizing agents

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

For this mixture is no data available., Please find this information in the listing of the component/components below in the MSDS.

Inhalation



For this mixture is no data available. Please find this information in the listing of the component/components below in the MSDS.	
Dermal	
For this mixture is no data available. Please find this information in the listing of the component/components below in the MSDS.	
Irritation	
Skin	
Result	: Repeated exposure may cause skin dryness or cracking.
Eyes	
Result	: Based on available data, the classification criteria are not met.
Sensitisation	
Result	: Based on available data, the classification criteria are not met.
CMR effects	
CMR Properties	
Carcinogenicity	: For this product currently is no data available. Based on available data, the classification criteria are not met.
Mutagenicity	: For this product currently is no data available. Based on available data, the classification criteria are not met.
Reproductive toxicity	: For this product currently is no data available. Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity	
Single exposure	
remark	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Repeated exposure	
remark	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Other toxic properties	
Repeated dose toxicity	
no data available	
Aspiration hazard	
May be fatal if swallowed and enters airways.	
Component	: Hydrocarbons, C11-C12, isoalkanes, <2% aromatics
Acute toxicity	
Oral	
LD50	: > 5000 mg/kg (rat) (OECD Test Guideline 401)
Inhalation	
LC50	: (rat; 4 h) (OECD Test Guideline 403) Based on available data, the classification criteria are not met.
Dermal	
LD50 Dermal	: > 5000 mg/kg (rabbit) (OECD Test Guideline 402) Information given is based on data obtained from similar substances.
Component	: (2-Methoxymethylethoxy)propanol CAS-No. 34590-94-8
Acute toxicity	
Oral	
LD50	: 5135 mg/kg (rat)
Inhalation	
LC50	: > 500 mg/l, > 500 ppm (rat; 7 h)
Dermal	
LD50	: 13000 - 14000 mg/kg (rabbit)
SECTION 12: Ecological information	
12.1. Toxicity	



Component	: Hydrocarbons, C11-C12, isoalkanes, <2% aromatics
Acute toxicity	
Fish	
LLO	: 1000 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) Information given is based on data obtained from similar substances.
Toxicity to daphnia and other aquatic invertebrates	
ELO	: 1000 mg/l (Daphnia magna (Water flea); 48 h) Information given is based on data obtained from similar substances.
algae	
ELO	: 1000 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) Information given is based on data obtained from similar substances.
NOELR	: 1000 mg/l (Pseudokirchneriella subcapitata; 72 h) Information given is based on data obtained from similar substances.
Component	: (2-Methoxymethylethoxy)propanol CAS-No. 34590-94-8
Acute toxicity	
Fish	
LC50	: > 10000 mg/l (Pimephales promelas; 96 h) (static test)
Toxicity to daphnia and other aquatic invertebrates	
EC50	: 1919 mg/l (Daphnia; 48 h)
algae	
EC50	: > 969 mg/l (Scenedesmus capricornutum (fresh water algae); 96 h)

12.2. Persistence and degradability

Component	: Hydrocarbons, C11-C12, isoalkanes, <2% aromatics
Persistence and degradability	
Persistence	
Result	: non-significant hydrolysis non-significant photolysis
Biodegradability	
Result	: 31,3 % (Exposure Time: 28 d) Information given is based on data obtained from similar substances. Inherently biodegradable.
Component	: (2-Methoxymethylethoxy)propanol CAS-No. 34590-94-8
Persistence and degradability	
Biodegradability	
Result	: 93 % (Exposure Time: 13 d)(OECD 302 B) Readily biodegradable

12.3. Bioaccumulative potential

Component	: Hydrocarbons, C11-C12, isoalkanes, <2% aromatics
Bioaccumulation	
Result	: not determined
Component	: (2-Methoxymethylethoxy)propanol CAS-No. 34590-94-8
Bioaccumulation	
Result	: Bioaccumulation is not expected.

12.4. Mobility in soil

Component	: Hydrocarbons, C11-C12, isoalkanes, <2% aromatics
Mobility	
	: The product is volatile and readily biodegradable., Floats on water., Adsorbs on soil., Has low mobility.

12.5. Results of PBT and vPvB assessment

Component	: Hydrocarbons, C11-C12, isoalkanes, <2% aromatics
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Results of PBT and vPvB assessment	
Result	: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not 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. Do not allow material to contaminate ground water system.
SECTION 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. If recycling is not practicable, dispose of in compliance with local regulations.
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.
SECTION 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.
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
WGK (DE)	: WGK:1; slightly water endangering; WGK (DE); Self-classification according VwVwS of 17 May 1999, Annex 4
Major Accident Hazard Legislation	: Does not fall 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

no data available

SECTION 16: Other information

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

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.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

Further information

Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

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 relationship. 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.