

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



78010 Surfynol® 61, wetting agent

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Revised edition: 01.08.2022

Version: 1.3

Printed: 12.07.2023

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Surfynol® 61, wetting agent

Article No.: 78010

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Industrial application

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

Flammable liquids, hazard category 3
Acute toxicity (oral), hazard category 4
Skin irritation, hazard category 2
Eye irritation, hazard category 2
H226 Flammable liquid and vapour.
Cat.: 3
H302 Harmful if swallowed.
Cat.: 4
H315 Causes skin irritation.
Cat.: 2
H319 Causes serious eye irritation.
Cat.: 2

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

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

Hazard designation:

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GHS02



GHS07-1

Signal word:

Warning

Hazard designation:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P301+P312	If swallowed: Call a poison center or physician if you feel unwell.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313	If skin irritation occurs: Get medical attention.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Acetyene alcohol

Information on Components / Hazardous Ingredients:

3,5-Dimethylhex-1-in-3-ol (H226-302-315-319); REACH Reg. No. 01-2120077456-48-0000	50 - 100 %	CAS-Nr: 107-54-0 EINECS-Nr: 203-500-9 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Remove contaminated clothes immediately.

After inhalation:

Supply fresh air.
If breathing is difficult call a physician.

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After skin contact:

Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.

After eye contact:

*Rinse open eye for several minutes under running water.
Seek medical attention if irritation persists.*

After ingestion:

*Rinse mouth with plenty of water.
If symptoms persist, call a physician.*

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Prolonged/repeated inhalation of high concentrations may cause sore throat.

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray jet.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*In case of fire: formation of carbon monoxide, carbon dioxide.
May cause explosive gas-air-mixtures.*

5.3. Advice for Firefighters

Protective equipment:

*Wear self-contained respiratory protective device.
Wear suitable protective clothing.*

Further information:

Cool exposed containers with water spray.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Keep away from sources of heat and ignition.
Wear appropriate protective equipment. Keep spectators away.*

6.2. Environmental Precautions

Environmental precautions:

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Prevent contamination of soil, drains and surface waters.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with inert absorbent material (dry sand, vermiculite, active charcoal) and dispose as hazardous waste.

Ventilate closed rooms. If possible stop discharge of product.

6.4. Reference to other Sections

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Provide good ventilation and/or exhaust at the workplace. Ensure adequate ventilation. Handle and open container with care.

Avoid contact with eyes.

Do not swallow or inhale.

A nearby eyewash facility should be available for emergencies.

Hygienic measures:

Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

Do not store together with: oxidants.

Take measures to prevent static electricity discharge, earth/ground all equipment.

Keep away from sources of heat and ignition - do not smoke.

Do not store together with: foodstuffs, beverages and feed.

Storage class:

3; Flammable liquids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

none known

Parameters to be controlled:

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Derived No-Effect Level (DNEL):

No values available.

Predicted No-Effect Concentration (PNEC):

No values available.

Additional Information:

8.2. Exposure Controls

Technical protective measures:

No further measures, see Section 7.

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation, filter type A-P.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Neoprene, polyvinyl alcohol (PVA).

Eye protection:

Chemical splash goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Prevent contamination of open water ways and sewage system. Avoid contamination of ground water.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: amber

Odor: similar to camphor

Odor threshold:
no information available

pH-Value: 7 (25°C)

Melting temperature:
not available

Boiling temperature: 151°C (1015 hPa)

Flash point: 57°C

Evaporation rate:

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No information available.

Flammability (solid, gas):

not applicable

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure:

6 hPa (21°C; 70°F)

Vapor density:

No information available.

Density:

0.85 g/cm³ (21°C; 70°F)

Solubility in water:

not determined

Auto-ignition temperature:

354°C (EU Method A.15)

Decomposition temperature:

No data available.

Viscosity, dynamic:

not available

Explosive properties:

not available

Oxidizing properties:

not oxidizing

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

Metal corrosion: non-corrosive to metal.

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

No information available.

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10.4. Conditions to Avoid

Conditions to avoid:

Avoid contact with heat, sparks and open fire.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

Oxidizing agents.

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

LD50, oral: > 300 mg/kg (rat)

LD50, dermal: > 2000 mg/kg (rabbit)

*LC50, inhalation: LC50: > 20 mg/l (1h; rat)
LC50: > 5 mg/m³ (4h, rat)*

Primary effects

Irritant effect on skin:

Irritating (24h, rabbit)

Irritant effect on eyes:

Irritating effect (rabbit).

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Non sensitizing (OECD 429, Mouse Local Lymph Node Assay (LLNA))

Mutagenicity:

Not mutagenic (Ames-Test; OECD 471)

Not mutagenic (Bacterial Reverse Mutation Test; Ames-Test, OECD 471)

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: no information available.

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Aspiration hazard:

No information available.

11.2. Information on other Hazards

Endocrine Disrupting Properties:

This substance/mixture does not contain any components with endocrine disrupting properties in a percentage of 0.1 or greater, according to Article 57(f) of the REACH Regulation (EC) No. 1907/2006 or the Delegated Regulation (EC) 2017/2100 or the Delegated Regulation (EC) 2018/605.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

No data available.

Daphnia toxicity:

EC50: > 100 mg/l (48h, Daphnia magna; OECD 202)

Bacteria toxicity:

No data available.

Algae toxicity:

*ErC50: 53 mg/l (72h, Pseudokirchneriella subcapitata; OECD 201)
NOEC: 5.71 mg/l (72h, Pseudokirchneriella subcapitata; OECD 201)*

12.2. Persistency and Degradability

Readily biodegradable.

97 % (11d; OECD 301D)

12.3. Bioaccumulation

log KOW: 1,85 (QSAR)

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

12.6. Endocrine Disrupting Properties

This substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

12.7. Other Adverse Effects

Water hazard class:

2 (German Regulation) (Assessment by list): hazardous.

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

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13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1993

14.2. UN Proper Shipping Name

ADR/RID: ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (3,5-Dimethyl-1-hexyn-3-ol), SV 274, 601

IMDG/IATA: FLAMMABLE LIQUID, N.O.S. (3,5-Dimethyl-1-hexyn-3-ol), SP 274, 601

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-E

IATA Class: 3

Hazard no.: 3

14.4. Packaging Group

ADR/RID: III

IMDG: III

IATA: III

14.5. Environmental Hazards

Not classified as environmentally hazardous.

14.6. Special Precautions for User

14.7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14.8. Further Information

Special Provision: 274, 601

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15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Flammable liquids (P5c): Amount 1: 5000 t; Amount 2: 50000 t

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15.3. Further Information

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.