

Safety Data Sheet

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



70470 Shellsol® D 70

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Revised edition: 03.07.2020

Version: 3

Printed: 19.10.2022

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

1.1. Product Identifier

Product Name: Shellsol® D 70

Article No.: 70470

UFI: --

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

Identified uses:

*Solvent
Industrial application
Binding agent
Laboratory chemical*

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

E-Mail: 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)*

H304

Cat.: 1

*Aspiration hazard, hazard category 1
May be fatal if swallowed and enters airways.*

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

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

Hazard designation:



GHS08-2

Signal word:

Danger

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Hazard designation:

H304	May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P301+P310	If swallowed: Immediately call a poison center or physician.
P370+P378	In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P403	Store in a well ventilated place.
P405	Store locked up.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclenes, <2 % aromatics

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclenes, <2 % aromatics

Information on Components / Hazardous Ingredients:

Hydrocarbons, C11-C14, n-Alkanes, Isoalkanes, 100 %	CAS-Nr:
Cyclenes, <2 % Aromatics (H304, EUH066);	EINECS-Nr: 926-141-6
REACH Reg.-Nr. 01-2119456620-43	EC-Nr:

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air. If required give artificial respiration. In case of complaints or unconsciousness consult a physician. In case of unconsciousness place patient stable in side position for transportation.

Give artificial respiration in case breathing is not regular or if it has stopped.

After skin contact:

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

Wash contaminated clothing before reuse.

After eye contact:

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Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.

After ingestion:

Do not induce vomiting. Consult physician immediately.

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

Symptoms:

Skin contact: redness, dryness, itching and burning.

Effects:

For further information on symptoms and health hazards, see section 11.

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

Treatment:

If vomiting occurs after ingestion, aspiration into the lungs can occur which can cause a chemical pneumonia or suffocation.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Water mist, extinguishing powder, foam, carbon dioxide.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Flammable.

In case of fire: formation of CO, CO₂ and fumes.

5.3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basis level of protection for chemical incidents.

Further information:

Cool exposed containers with water mist.

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

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid contact with skin and eyes. Do not ingest or inhale.

Wear appropriate protective equipment. Keep spectators away.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes soil or vegetation.

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6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Larger amounts should be pumped into adequate containers. Contain with absorbent material (sand, diatomaceous earth, universal absorbent, Oil Dri) and dispose accordingly.

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:

Earth all devices and apparati. Avoid spilling or spraying in closed rooms.

Avoid contact with eyes, skin and clothing.

Hygienic 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.

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:

Suitable container material: stainless steel, carbon steel, polyethylene, polypropylene, polyester, Teflon.

Unsuitable container material: natural rubber, butyl rubber, polystyrol, EDPM.

Information on fire and explosion protection:

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

Storage class:

Further Information:

7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Hydrocarbons, C11-C14, n-Alkanes, Isoalkanes, Cyclenes, <2% Aromatics: TWA 1200 mg/m³; 165 ppm

Parameters to be controlled:

Derived No-Effect Level (DNEL):

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Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

*Ensure adequate ventilation, especially in confined areas.
Exhaust system has to be explosion-protected.*

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.
Keep away from sources of ignition - no smoking. Avoid contact with skin, eyes and clothing.*

Respiratory protection:

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

Hand protection:

Chemical protective gloves (EN 374 (Europe), F739 (US)).

Protective glove material:

Nitrile rubber (> 480 min, > 0.38 mm)

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing, chemical resistant.

Environmental precautions:

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

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>clear</i>
<i>Odor:</i>	<i>weak, characteristic</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>not available</i>
<i>Melting temperature:</i>	<i>not applicable</i>
<i>Boiling temperature:</i>	<i>203-238°C (397-460°F)</i>
<i>Flash point:</i>	<i>> 79°C (174°F)</i>
<i>Evaporation rate:</i>	<i>0.02</i>

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Flammability (solid, gas):

not available

Upper explosion limit:

6.0 Vol.-%

Lower explosion limit:

0.6 Vol.-%

Vapor pressure:

< 0.2 kPa (0.15 mm Hg; 20°C)

Vapor density:

6.1 (101 kPa)

Density:

0.8 g/cm³ (15°C)

Solubility in water:

practically insoluble

Coefficient of variation (n-Octanol/Water):

> 4 log POW

no information available

Auto-ignition temperature:

> 227°C (441°F)

Decomposition temperature:

No data available.

Viscosity, dynamic:

1.7 cSt (mm²/sec; 40°C)

2.3 cSt (mm²/sec; 20°C)

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

none

Bulk density:

not applicable

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

Molecular weight: 177 g/mol

Pour point: -48°C (-54°F) (ASTM D5959)

Thermal expansion coefficient: 0.00089°C (calc.)

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

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Hazardous polymerisation will not occur.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid heat, sparks, open fire and other ignition sources.

Thermal decomposition:

Avoid heat.

10.5. Incompatible Materials

Strong 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: > 5000 mg/kg (rat; OECD 401)

LD50, dermal: > 5000 mg/kg (rabbit; OECD 402)

LC50, inhalation: > 5000 mg/m³ (8h, rat; OECD 403)

Primary effects

Irritant effect on skin:

Prolonged/repeated contact may cause defatting of the skin which may cause dermatitis.

Irritant effect on eyes:

Slight irritant effect

Inhalation:

Can cause irritation of the respiratory system.

Ingestion:

Can be lethal when swallowed.

Sensitization:

No sensitizing effects known.

Mutagenicity:

No mutagenic effects observed.

Reproductive toxicity:

Not considered to be toxic to reproduction.

Carcinogenicity:

Product is not cancerogenic.

Teratogenicity:

Did not show any teratogenic effects in animal studies (IUCLID).

Specific target organ toxicity (STOT):

*Single exposure: no organospecific toxicity expected.
Repeated exposure: no toxicological effects.*

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Aspiration hazard

No information available.

11. 2. Information on other Hazards

Skin contact: repeated or long-term contact with the product may cause defatting of the skin and dermatitis.

Eye contact: irritating.

Inhalation: Long-term overexposure can impair the central nervous system which may cause headache, dizziness, nausea.

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis. Product is irritating, respectively, caustic for the respiratory tract.

12. Ecological Information

12. 1. Aquatic Toxicity

Not harmful to aquatic organisms.

Fish toxicity:

LL0: 1000 mg/l (96h, Oncorhynchus mykiss)

Daphnia toxicity:

EL0: 1000 mg/l (48h, Daphnia magna)

Bacteria toxicity:

EL0: 1000 mg/l (72h, Pseudokirchneriella subcapitata)

Algae toxicity:

No information available.

12. 2. Persistency and Degradability

Readily biodegradable (69 %, 28d)

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

12. 6. Endocrine Disrupting Properties

Not listed.

12. 7. Other Adverse Effects

Water hazard class:

Product is not harmful for water organisms.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

In accordance with current regulations, product may be taken to an next page: 9

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incineration plant.

European Waste Code (EWC):

Uncleaned packaging:

*Do not puncture, cut or weld uncleaned drums. Risk of explosion.
Residues may cause an explosion hazard.*

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

This product does not constitute a hazardous substance in national / international road and rail transport (ADR/RID).

IMDG/IATA:

This product does not constitute a hazardous substance in national / international sea (IMDG) and air transport (IATA).

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

Danger label: 9 (F)

14.7. Maritime Transport in Bulk according to IMO Instruments

Substance name: NOXIOUS LIQUID, N.F., (7) N.O.S. (contains

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iso- and cycloalkanes (C12+)); Type of vessel: 3; Pollution category: Y

14.8. Further Information

15. Regulatory Information

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

Water hazard class:

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

Local regulations on chemical accidents:

Does not underlie the Accident Ordinance.

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

5.2.5.: Organic substances

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for the component substances contained in this product.

15.3. Further Information

Listed in the following inventories:

TSCA (US), AICS (AUS), DSL (CA), PICCS (PH), KECI (KR), ENCS (JP), IECSC (CN)

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.