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

1. 1. Product Identifier

Product Name:	*Shellsol® D 40*
Article No.:	*70471*
UFI:	*--*

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

Identified uses:
Industrial use

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
Aspiration hazard, hazard category 1
Specific Target Organ Toxicity (single exposure), hazard category 3

H226	Flammable liquid and vapour.
Cat.: 3	
H304	May be fatal if swallowed and enters airways.
Cat.: 1	
H336	May cause drowsiness or dizziness.
Cat.: 3	

Possible Environmental Effects:
See Section 12.

2. 2. Label Elements

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

Hazard designation:

GHS02

GHS07

GHS08-2

Signal word:

Danger

Hazard designation:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P301+P310	If swallowed: Immediately call a poison center or physician.
P331	Do not induce vomiting.
P370+P378	In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P403+P235	Store in a well ventilated place. Keep cool.

Hazardous components for labelling:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

2. 3. Other Hazards

Product is combustible and can be ignited by potential ignition sources.

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: *Mixture of paraffinic and naphthenic hydrocarbons C9-C11.*

Information on Components / Hazardous Ingredients:

Hydrocarbons, C11-C11, n-Alkanes, Isoalkanes, Cyclenes, <2 % Aromatics (H226-336-304); REACH Reg. No.: 01-2119463258-33-0000	0 - 100 %	CAS-Nr: 64742-48-9 EINECS-Nr: 919-857-5 EC-Nr:

Additional information:

4. First Aid Measures

Description of the First Aid Measures

4. 1.

General information:

Take person away from hazardous area.
Remove contaminated clothes immediately.
First aiders: mind self-protection!

After inhalation:

Take affected person to fresh air.
Give artificial respiration in case breathing is not regular or if it has stopped.
In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Wash off with plenty of water and soap. Consult a physician if irritation persists.

After eye contact:

Remove contact lens.
Rinse open eyes with plenty of water for at least 10 minutes.

After ingestion:

Do not induce vomiting.
Risk of aspiration!
Immediately get medical help.
In case of spontaneous vomiting, bring unconsciousness person in a stable side position.

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Narcotic effects, breathing difficulties, headache, dizziness.

Effects:

If vomiting occurs after ingestion, aspiration into the lungs can occur. Aspiration can cause pulmonory edema and pneumonia.

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:

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 liquid.
Product floats on water surface and does not dissolve.
Fumes can form an explosive mixture with air.
The vapor is heavier than air, spreads along the ground and

distant ignition is possible.
In case of fire: formation of carbon oxides.

5. 3. Advice for Firefighters

Protective equipment:

Further information:

Cool closed containers exposed to fire with water mist.
Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidential Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear appropriate protective equipment. Keep spectators away.
Ensure adequate ventilation.
Keep away from sources of heat and ignition.
Avoid contact with skin and eyes. Do not ingest or inhale.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.
Contact local authorities if product pollutes soil or vegetation.

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Wipe up with adsorbant material (e.g cloth, fleece).
Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent) and dispose accordingly.

6. 4. Reference to other Sections

Protective clothing, see Section 8.
See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Keep containers tightly closed.
Provide adequate ventilation.

Hygienic measures:

Take off contaminated clothing immediately.
Avoid contact with eyes and skin.
Do not inhale gas/fumes/vapours/aerosols.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a dry and cool room.
Store product in a well ventilated area.
Protect against heat.

Requirements for storage areas and

containers:

Store in a room with a solvent-proof floor.

Suitable container material: stainless steel, carbon steel, polyvinyl chloride, polyester.

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

Information on fire and explosion protection:

Combustible liquid.

Vapors may form an explosive mixture with air. Vapor is heavier than air and spreads along the ground.

Do not store together with ignitable sources, heat and fire.

Take measures to prevent electrostatic discharge.

Do not store together with: strong oxidants.

Storage class:

3; Flammable liquids (TRGS 510)

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, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, <2% aromatics: TLV: Average value: 300 mg/m3; Short-term value: 600 mg/m3

Parameters to be controlled:

Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, <2% aromatics: TLV (AT): Average value: 200 ppm; Short-term value: 400 ppm; TLV (CH): Average value: 50 ppm, 300 mg/m3; Short-term value: 100 ppm, 600 mg/m3

Derived No-Effect Level (DNEL):

Hydrocarbons, C11-C14, n-Alkanes, Isoalkanes, Cyclenes, <2 % Aromatics:

208 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)

871 mg/m3 (worker, inhalation, long-term exposure - systemic effects)

125 mg/kg bw/d (consumer, skin contact/swallowing, long-term exposure - systemic effects)

185 mg/m3 (consumer, inhalation, long-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

No further measures, see Section 7 and 8.

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 (organic gases and vapors).

Hand protection:

Solvent resistant protective gloves.

Protective glove material:

Nitrile rubber (480 min, 0.4 mm)
Fluoro carbon rubber - FKM (> 480 min; 0.4 mm).

Eye protection:

Tightly fitting safety 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:	*colorless*
Odor:	*characteristic*
Odor threshold:	*no information available*
pH-Value:	*not applicable*
Melting temperature:	*< -50°C*
Boiling temperature:	*155 - 192°C*
Flash point:	*39°C*
Evaporation rate:	*not determined*
Flammability (solid, gas):	*Flammable liquid according to GHS criteria*
Upper explosion limit:	*7 Vol.-%*
Lower explosion limit:	*0.6 Vol.-%*

Vapor pressure:	*3 hPa (20°C)*
Vapor density:	*No information available.*
Density:	*0.776 g/cm3 (15°C)*
Solubility in water:	*not determined*
Coefficient of variation (n-Octanol/Water):	*no information available*
Auto-ignition temperature:	*No information available.*
Decomposition temperature:	*No data available.*
Viscosity, dynamic:	
Explosive properties:	*An explosive vapor/air mixture can be formed.*
Oxidizing properties:	*none*
Bulk density:	*not applicable*

9. 2. Further Information

Solubility in solvents:	
Viscosity, kinematic:	*1.3 mm2/s (20°C)*
Burning class:	
Solvent content:	
Solid content:	
Particle size:	
Other information:	*Ignition temperature: > 200°C (1 atm)* *Surface tension: 24.3 mN/m (25°C)* *Temperature class: T3 (maximum temperature: 200°C)*

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

No decomposition if used according to specifications.

10.3. Possibility of Hazardous Reactions

Formation of explosive vapor-air-mixtures possible.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid contact with heat, sparks and open fire.

Thermal decomposition:

No data available.

10.5. Imcompatible Materials

Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Carbon oxides
Thermal decomposition may yield toxic or irritating gases.

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:

Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, aromatic (< 2 %): > 5000 mg/kg (rat)

LD50, dermal:

Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, aromatic (< 2 %): > 2000 mg/kg (rat)

LC50, inhalation:

Primary effects

Irritant effect on skin:

Non irritating

Irritant effect on eyes:

Non-irritating to eyes

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No mutagenic effects observed.

Reproductive toxicity:

Does not contain any component classified as toxic for reproduction.

Carcinogenicity:

Does not contain any component classified as carcinogenic.

Teratogenicity:

Not considered to be teratogenic.

Specific target organ toxicity (STOT):

Single exposure: may cause drowsiness or dizziness.
Repeated exposure: the substance or mixture is not classified as

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specific target organ toxicant.

Aspiration hazard:

Toluene: May be fatal if swallowed and enters airways.

11. 2. Information on other Hazards

Skin contact: repeated exposure may cause skin dryness or cracking.

12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:

Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, aromatic (< 2 %): LL50: > 1000 mg/l (96h, Oncorhynchus mykiss)

Daphnia toxicity:

Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, aromatisch (< 2 %): EL0: 1000 mg/l (48h, Daphnia magna)

Bacteria toxicity:

no information available

Algae toxicity:

No information available.

12. 2. Persistency and Degradability

The product floats on the water surface and does not dissolve.
The product evaporates easily from water surface.
The individual components are readily biodegradable.
Oxygen consumption: 10 % (5d)
Carbon dioxide formation: 0 % (3d)

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

The contents of the preparation do not comply with the criteria for the classification as PBT or vPvB.

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 Delgated Regulation (EU) No. 2017/2100 or Commission Regulaton (EU) 2018/605 at levels of 0.1 % or higher.

12. 7. Other Adverse Effects

Water hazard class:

1, slightly hazardous
Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Solvent recovery / regeneration.
Do not let product enter water systems.

European Waste Code (EWC):

Uncleaned packaging:

Empty container completely. Residues may cause an explosion hazard.
Do not puncture, cut or weld uncleaned drums. Risk of explosion.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA *3295*

14. 2. UN Proper Shipping Name

ADR/RID: *KOHLENWASSERSTOFFE, FLÜSSIG, N.A.G. (Kohlenwasserstoffe)*

IMDG/IATA: *HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics)*

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-D*

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

The rules for Dangerous Goods (ADR) must also be observed within the company grounds.

14. 7. Maritime Transport in Bulk according to IMO Instruments

Not transported by sea in bulk.

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:

Seveso-III Directive (2012/18/EU): P5c and E2

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

Employment restrictions:

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.

The employment restrictions for young workers in accordance with the Youth Employment Protection Law are to be observed.

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 3, 40.

Technical instructions on air quality:

5.2.5.: Organic substances (as total dust): > 25 wt-% (m>= 0.50 kg/h, Konz. 50 mg/m3)

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

15. 3. Further Information

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHs): not listed.

Regulation (EC) No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register (PRTR): Not listed

Regulation (EU) 2019/1021 - Persistent organic pollutants: not regulated / not applicable

Fire hazard class (German "Flammable Liquids Ordinance" (VbF)): AII (flammable liquids of group A, hazardous class II)

Listed in the following inventories:

REACH (EU), ECSI (EU), TSCA (US), AIIC (AUS), DSL (CA), KECI (KR), PICCS (PH), NZIoC (NZ), IECSC (CN), TCSI (TW), CICR (TR), INSQ (MX)

EU. Directive 2010/75/EU, VOC content 100 %

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.