

# Safety Data Sheet

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



**70520 Shellsol® A**

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Revised edition: 30.07.2018

Version: 4.1

Printed: 06.02.2019

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

### 1.1. Product Identifier

*Product Name:* Shellsol® A

*Article No.:* 70520

### 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.de

*E-Mail:* info@kremer-pigmente.de

*Importer:* --

### 1.4. Emergency No.

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

## 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	
H335	May cause respiratory irritation.
Cat.: 3	
H336	May cause drowsiness or dizziness.
Cat.: 3	
H411	Toxic to aquatic life with long lasting effects.
Cat.: 2	

*Classification according to Directive No. 67/548/EC or No. 1999/45/EC*

*Safety Phrases:*

*Possible Environmental Effects:*

*The product is combustible and can be ignited by potential sources of ignition. Spillage and extinguishing water can cause pollution of*

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*the environment.*

## 2.2. Label Elements

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

*Hazard designation:*



GHS02



GHS07



GHS08-2



GHS09

*Signal word:*

Danger

*Hazard designation:*

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
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 sand, dry extinguishing powder or foam 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:*

## 2.3. Other Hazards

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Aromatic hydrocarbons, C9.

*Information on Components / Hazardous*

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## Ingredients:

Hydrocarbons, C9, Aromatics (Xi,N; R10-37-65-66-67-51/53; H226-335-336-304-411); REACH Reg. No. 01-2119455851-35-xxxx	100 %	CAS-Nr: 64742-95-6 EINECS-Nr: 918-668-5 EC-Nr:
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## Additional information:

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### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

##### General information:

*First aiders have to protect themselves.  
Take person away from hazardous area.  
Remove contaminated clothes immediately.*

##### After inhalation:

*Supply fresh air. If required give artificial respiration. Keep patient warm.  
In case of unconsciousness place patient stable in side position for transportation.  
In case of irritation of the respiratory system seek medical help.*

##### After skin contact:

*Wash off with plenty of water and soap.*

##### After eye contact:

*Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.*

##### After ingestion:

*Rinse mouth with plenty of water.  
Do not induce vomiting. Consult physician immediately.*

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

##### Symptoms:

*Headache, dizziness, breathing difficulties, narcotic effects.*

##### Effects:

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

##### Treatment:

*Subsequent observation for pneumonia and pulmonary edema.  
Monitor the circulation.*

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### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

##### Suitable extinguishing media:

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray jet.*

##### Unsuitable extinguishing media:

*Water with full jet.*

#### 5.2. Special Hazards arising from the Substance or Mixture

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*Special hazards:*

*Combustible.  
Fumes can form an explosive mixture with air.  
The vapor is heavier than air, spreads along the ground and distant ignition is possible.  
Product floats on water surface and does not dissolve.  
In case of fire: formation of carbon oxides.*

**5.3. Advice for Firefighters**

*Protective equipment:*

*Wear self-contained respiratory protective device and full protective gear.*

*Further information:*

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

---

**6. Accidental Release Measures**

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.  
Close leaks without taking any risk.  
Provide adequate ventilation. Keep away from sources of ignition.*

**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:*

*Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent) and dispose accordingly.  
Dispose of contaminated material as waste according to section 13.*

**6.4. Reference to other Sections**

*Protective clothing, see Section 8.*

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**7. Handling and Storage**

**7.1. Precautions for Safe Handling**

*Instructions on safe handling:*

*The usual precautionary measures are to be adhered to when handling chemicals.  
Provide adequate ventilation.  
Avoid contact with eyes and skin.  
Do not breathe vapors, aerosols.*

*Hygienic measures:*

*Take off contaminated clothing immediately.  
Keep away from foodstuffs and drinks. Do not eat, drink or smoke*

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*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 dry and cool room.  
Protect product from direct sunlight.  
Product is combustible.  
Keep away from ignitable sources and fire.*

*Requirements for storage areas and containers:*

*Store in a room with a solvent-proof floor.*

*Information on fire and explosion protection:*

*Do not store together with: strong oxidants.  
Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.*

*Storage class (VCI):*

*3: Flammable liquids*

*Further Information:*

*The product is slightly hazardous to water. Consider national regulations regarding handling and storage.*

## 7.3. Specific End Use(s)

*Further information:*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TRGS 900  
Hydrocarbons, C9, aromatics:  
TLV: 50 mg/m<sup>3</sup> (long-term value); 100 mg/m<sup>3</sup> (short-term value)  
(inhalable dust)*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Hydrocarbons, C9, aromatics:  
25 mg/kg bw/d (worker, skin contact, long-term exposition - systemic effects)  
150 mg/m<sup>3</sup> (worker, inhalation, long-term exposition - systemic effects)  
11 mg/kg bw/d (consumer, skin contact, long-term exposition - systemic effects)  
32 mg/kg (consumer, inhalation, long-term exposition - systemic effects)*

*Predicted No-Effect Concentration (PNEC):*

*No values available.*

*Additional Information:*

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## 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. Avoid contact with eyes and skin.*

*Respiratory protection:*

*Respirator mask required if ventilation is insufficient. Wear filter respirator in case of short-term or low exposure, and wear a self-contained breathing apparatus in case of long-term or higher exposure.*

*Recommended: composite filter A-P2 (EN 141)*

*Hand protection:*

*Protective gloves. The glove material has to be impermeable and resistant to the product / substance / preparation.*

*Protective glove material:*

*Nitrile rubber (480 min, 0.4 mm)*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*Protective clothing (flame-proof, antistatic).*

*Environmental precautions:*

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

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## 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:*

*< -30°C*

*Boiling temperature:*

*140-200°C*

*Flash point:*

*> 35°C*

*Evaporation rate:*

*No information available.*

*Flammability (solid, gas):*

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*not applicable*

*Upper explosion limit:*

7 Vol.-%

*Lower explosion limit:*

0.6 Vol.-%

*Vapor pressure:*

< 10 hPa (20°C)

*Vapor density:*

*No information available.*

*Density:*

0.87 - 0.89 g/cm<sup>3</sup> (15°C)

*Solubility in water:*

*insoluble*

*Coefficient of variation (n-Octanol/Water):*

3.7 - 4.5 lowKOW

*not applicable*

*Auto-ignition temperature:*

> 400°C

*Decomposition temperature:*

*No data available.*

*Viscosity, dynamic:*

*not available*

*Explosive properties:*

*Product is not explosive; however, an explosive vapor/air mixture can be formed.*

*Oxidizing properties:*

*no information available*

*Bulk density:*

*not determined*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

0.9 mm<sup>2</sup>/s (25°C)

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Surface tension: 29.1 mN/m (25°C)*

*Temperature class: T2 (maximum temperature: 300°C)*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*No decomposition if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Formation of explosive vapor-air-mixtures possible* next page: 8

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## 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid contact with heat, sparks and open fire.  
Avoid direct sunlight.*

*Thermal decomposition:*

*No further information available.*

## 10.5. Incompatible Materials

*Strong oxidizing agents.*

## 10.6. Hazardous Decomposition Products

*Carbon oxides*

## 10.7. Further Information

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# 11. Toxicological Information

## 11.1. Information on Toxicological Effects

*Not classified as acute toxic.*

*Acute Toxicity*

*Hydrocarbons, C9, Aromatics*

*LD50, oral:*

*3492 mg/kg (rat)*

*LD50, dermal:*

*> 3160 mg/kg (rabbit)*

*LC50, inhalation:*

*No information available.*

*Primary effects*

*Irritant effect on skin:*

*Causes mild skin irritation. Prolonged contact may cause dermatitis.*

*Irritant effect on eyes:*

*Causes eye ailments, however does not damage the eye tissue.*

*Inhalation:*

*Irritates the respiratory tract.*

*Ingestion:*

*No information available*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*No mutagenic effects observed.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No negative effects.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

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*Single exposure: may cause respiratory irritation.*  
*Single exposure: may cause drowsiness or dizziness.*  
*Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.*

*Additional toxicological information:*

*Aspiration toxicity: may be fatal if swallowed and enters airways.*  
*Inhalation of high vapor concentrations can be narcotic and may cause depression of the central nervous system.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Hydrocarbons, C9, Aromatics*

*Fish toxicity:*

*LL50: 9.22 mg/l (96h, *Oncorhynchus mykiss*)*

*Daphnia toxicity:*

*EL50: 3.2 mg/l (48h, *Daphnia magna*; OECD 202)*

*Bacteria toxicity:*

*EC50: > 99 mg/l (10 min, Microorganisms)*

*Algae toxicity:*

*EC50: 0.29 mg/l; ErC50: 0.42 mg/l (72h, Algae)*

### 12.2. Persistency and Degradability

*54 - 56 %, CO<sub>2</sub>-formation*

*Readily biodegradable.*

### 12.3. Bioaccumulation

*logKOW: 3.7 - 4.5 (Bioaccumulative)*

### 12.4. Mobility

*Weak mobility.*

*Product floats on water and is not soluble in water.*

### 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. Other Adverse Effects

*Water hazard class:*

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

*Do not let product contaminate ground water, waterways or sewage system.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Toxic to water organisms.*

*May cause long-term adverse effects in the aquatic environment.*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

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*Must not be disposed together with household garbage.*

*Do not let product enter water systems.*

*Product can be incinerated, when in compliance with local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Uncontaminated packaging may be recycled. Completely empty packaging can be disposed of with the regular waste.*

*Do not puncture, cut or weld uncleaned drums. Risk of explosion.*

*Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA* 1268

### 14.2. UN Proper Shipping Name

*ADR/RID:* ERDÖLDESTILLATE, FLÜSSIG, N.A.G. (Kohlenwasserstoffe, C9)

*IMDG/IATA:* PETROLEUM DISTILLATES, LIQUID, N.O.S. (Hydrocarbons, C9)

### 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

*Labelling according 5.2.1.8 ADR/RID: fish and tree*

*Labelling according 5.2.1.6.3 IMDG: fish and tree*

*Classification as environmentally hazardous according 2.9.3*

*IMDG: yes*

### 14.6. Special Precautions for User

*not applicable*

### 14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

*IMDG: not applicable*

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## 14.8. Further Information

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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 (German Regulation)*

*Local regulations on chemical accidents:*

*Underlies the Accident Ordinance 13*

*Employment restrictions:*

*The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.*

*The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.*

*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

*VOC Content: 100 %*

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## 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.*