

Material Safety Data Sheet

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



70520 Shellsol® A

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Revised edition: 14.04.2014

Version: 6.1

Printed: 23.06.2014

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:

No information available.

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet

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

EMail: info@kremer-pigmente.de

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 EC Regulation 1272/2008

Flammable liquids, category 3
Specific Target Organ Toxicity (single exposure), category 3
Aspiration hazard, category 1
Chronic aquatic toxicity, category 2

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 EC Regulation No. 67/548 or No. 1999/45

R10 Flammable.

Irritating (Xi) R37 Irritating to respiratory system.

Hazardous to the environment (N) R51 Toxic to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

Harmful (Xn) R65 Harmful: May cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

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Safety Phrases:

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

Classification according to EC Regulation 1272/2008

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.
EUH006	Explosive with or without contact with air.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P301+P310	If swallowed: Immediately call a poison center or physician.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P331	Do not induce vomiting.
P403+P235	Store in a well ventilated place. Keep cool.

Hazardous components for labelling:

Hydrocarbons, C9, aromatics

Other Hazards

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2.3.

The results of the PBT and vPvB evaluation can be found in section 12.5.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Aromatic hydrocarbons, C9.

Hazardous Ingredients:

Hydrocarbons, C9, Aromatics (Xi,N; R10-37-65-66-67-51/53; H226-336-335-304-411); REACH 01-2119455851-35-xxxx	100 %	CAS-Nr: EINECS-Nr: 918-668-5 EC-Nr:
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Additional information:

Benzol concentration < 0.1 weight%

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.
Oxygen therapy in case of impaired breathing.
Consult physician immediately.*

After skin contact:

*Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.
If irritation continues consult a physician.*

After eye contact:

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

After ingestion:

*Rinse mouth with plenty of water.
Do not induce vomiting. Consult physician immediately.
Careful when vomiting. Risk of aspiration. Keep respiratory tract open.
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:

Headache, dizziness, unconsciousness, dry skin.

Effects:

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If vomiting occurs after ingestion, aspiration into the lungs can occur. Aspiration can cause pulmonary 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:

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

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

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.

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6.4. Reference to other Sections

Protective clothing, see Section 8.

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 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 electricity static 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:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

C9-C15 Aromatics

TRGS 900

AGW (D): 100 mg/m³; 2(II)

Hydrocarbon mixture, used as solvent (free from additives).

Parameters to be controlled (EC):

Derived No-Effect Level (DNEL):

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Hydrocarbons, C9, aromatics

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

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

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

32 mg/kg (consumer, inhalation, long-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

No values available.

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. 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.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: colorless

Odor: aromatic

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<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>not applicable</i>
<i>Melting temperature:</i>	<i>< -30°C</i>
<i>Boiling temperature:</i>	<i>140-200°C</i>
<i>Flash point:</i>	<i>> 35°C</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	<i>7.0 Vol. %</i>
<i>Lower explosion limit:</i>	<i>0.7 Vol. %</i>
<i>Vapor pressure:</i>	<i>< 10 hPa (25°C)</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>0.80 - 0.95 g/cm³ (15°C)</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not applicable</i>
<i>Auto-ignition temperature:</i>	<i>450°C</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	<i>not available</i>
<i>Explosive properties:</i>	<i>Product is not explosive; however, an explosive vapor/air mixture can be formed.</i>
<i>Oxidizing properties:</i>	<i>no information available</i>
<i>Bulk density:</i>	<i>not determined</i>

9.2. Further Information

<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic</i>	<i>0.7 - 1.7 mm²/s (20°C)</i>
<i>Burning class:</i>	
<i>Solvent content:</i>	

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Solid content:

Particle size:

Other information:

No further information.

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.

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

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

Hydrocarbons, C9, Aromatics

LD50, oral:

3592 mg/kg (rat; OECD 401)

LD50, dermal:

> 3160 mg/kg (rabbit; OECD 402)

LC50, inhalation:

Greater than the saturation concentration (rat; OECD 403)

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:

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No sensitizing effects known.

Mutagenicity:

No mutagenic effects observed.

Reproductive toxicity:

No data available.

Cancerogenity:

No negative effects.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

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.

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:

no information available

Algae toxicity:

*EC50: 2.6-2.9 mg/l (72h, *Pseudokirchneriella subcapitata*)*

12.2. Persistency and Degradability

Readily biodegradable.

12.3. Bioaccumulation

No information available.

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

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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:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

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.:

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, C9, Aromaten)

IMDG/IATA: HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9, aromatics)

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel no.: 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

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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 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

14.8. Further Information

15. Regulatory Information

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

Water hazard class:

2, hazardous for water

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 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. This Safety Data Sheet replaces that of 18.11.2010.