

SAFETY DATA SHEET 2316410 | 2316430 | ShellSol D40

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Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

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

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1.		stance/M	ixture and of the Company/Undertaking	g		
1. 1.	Product Identifier					
	Product Name:		Shellsol® D 40			
	Article No.:		2316 401			
1. 2.	Relevant identified Uses of the Su	ubstance or	Mixture and Uses advised against			
	Identified uses:		Industrial application			
	Uses advised against:					
1. 3.	Details of the Supplier of the Safe	ety Data She	eet (Producer/Importer)			
	Company:		Deffner & Johann GmbH			
	Address:		Mühläckerstr.13, 97520 Röthlein, Germany			
	Tel./Fax.:		+49 9723 9350-0 / +49 9723 9350-25			
	Internet:		www.deffner-johann.de			
	EMail:		info@deffner-johann.de			
	Importer:					
1. 4.	Emergency No.					
	Emergency No.:		+49 9723 9350-0			
1. 4. 2	Poison Center:		Giftnotruf (Berlin): +49 (0) 30 3068 6790			
2.	Hazards Identification					
2. 1.	Classification of the Substance or Mixture					
	Classification according to Re (EC) No. 1272/2008 (CLP/GH					
			Flammable liquids, hazard category 3 Aspiration hazard, hazard category 1 Specific Target Organ Toxicity (single expo 3	sure), haz	ard categor	
			Chronic aquatic toxicity, hazard category 2			
		H226 Cat.: 3	Flammable liquid and vapour.			
		H304	May be fatal if swallowed and enters airway	′S.		
		Cat.: 1				
		H336	May cause drowsiness or dizziness.			
		Cat.: 3 H411	Toxic to aquatic life with long lasting effects	i_		
		Cat.: 2				
	Possible Environmental Effect	ts:				
			See Section 12.			
2. 2.	Label Elements		See Section 12.			

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

Hazard designation:

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				GHS02		
			()	GHS07		
				GHS08-2		
			×	GHS09		
	Signal word:					
			Danger			
	Hazard designation:					
	0	H226	Flammable liquid a	nd vapour.		
		H304		lowed and enters airway	/S.	
		H336	May cause drowsin	ess or dizziness.		
		H411	Toxic to aquatic life	with long lasting effects	S.	
		EUH066	Repeated exposure	e may cause skin drynes	ss or cracki	ng.
	Safety designation:					
	ý (j	P210	Keep away from he smoking.	at/ sparks/ open flames	/ hot surfac	ces. No
		P273	Avoid release to the	e environment.		
		P280	Wear protective glo	oves/ clothing/ eye/ face	protection.	
		P301+P310	If swallowed: Imme	diately call a poison cer	nter or phys	ician.
		P303+P361+P353	If on skin (or hair): Rinse skin with wat	Take off immediately all er/shower.	contamina	ted clothing.
		P304+P340	If inhaled: Remove comfortable for bre	victim to fresh air and k athing.	eep at rest	in a position
		P331	Do not induce vom	iting.		
		P403+P235	Store in a well vent	ilated place. Keep cool.		
	Hazardous compone	ents for labelling:				
			aromatics	C11, n-alkanes, isoalka C11, isoalkanes, cycloa	-	
2. 3.	Other Hazards			-		

2.3. Other Hazards

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-C14, n-Alkanes, Isoalkanes,

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	Cyclenes, <2 % Aromatics (H226-3 REACH Reg. No.: 01-2119463258-		0 - 100 %	CAS-Nr: 64742-48-9 EINECS-Nr: 919-857-5 EC-Nr:		
	Hydrocarbons, C9-C11, Isoalkanes Aromatics (H226-304-336-411); RE 01-2119480153-44-xxxx		0 - 100 %	CAS-Nr: EINECS-Nr: 920-134-1 EC-Nr:		
	Additional information:	Benzol conc	entration < 0.1 v	veight%		
4.	First Aid Measures					
4. 1.	Description of the First Aid Measures					
	General information:					
		Take person	away from haz	ardous area.		
	Remove contaminated clothes immediately.					
		First aiders l	have to protect t	hemselves.		
	After inhalation:					
			d person to fres		·• · · ·	
		stopped.	i respiration in c	ase breathing is not regul	ar or it it has	
				place patient stable in sig	le position fo	
	After skin contact:					
		Wash off wit irritation pers		r and soap. Consult a phy	rsician if	
	After eye contact:					
		Rinse open	eye for several i	minutes under running wa	ter.	
		Seek medica	al attention if irrit	tation persists.		
	After ingestion:					
		Do not induc	•			
		Risk of aspir		2		
		In case of sp		ρ. iiting, bring unconsciousne	ess person in	
		a stable side	•			
4. 2.	Most important Symptoms and Effects,	both Acute and Delay	ed			
	Symptoms:					
				sciousness, dry skin.		
		Impairment	of the central ne	rvous system.		
	Effects:			stion, aspiration into the lu pulmonory edema and pr		
4. 3.	Indication of any Immediate Medical Att					
	Treatment:	•				
	noumon.	Treat sympton	omatically.			
5.	Fire-Fighting Measures	<i>, , , , , , , , , ,</i>	-			

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5. 1.	Extinguishing Media		1 Hintod. 20.04.202		
	Suitable extinguishing media:				
	Suitable extinguishing media.	Water mist, extinguishing pow	der, foam, carbon dioxide.		
	Unsuitable extinguishing media:				
	Cheanable extinguishing mound.	Water with full jet.			
5. 2.	Special Hazards arising from the Substar	nce or Mixture			
	Special hazards:				
		Flammable liquid.			
		Product floats on water surface	e and does not dissolve.		
		Fumes can form an explosive			
		The vapor is heavier than air, s distant ignition is possible.	spreads along the ground and		
		In case of fire: formation of car	rbon oxides.		
5. 3.	Advice for Firefighters				
	Protective equipment:				
	Further information:				
		Cool closed containers expose	ed to fire with water mist.		
		Collect contaminated extinguis avoid contamination of sewage	shing water and debris separately; e system.		
6.	Accidential Release Measures				
6. 1.	Personal Precautions, Protective Equipment and Emergency Procedures				
	Personal precautions:				
		Wear appropriate protective e	quipment. Keep spectators away.		
		Ensure adequate ventilation.			
		Keep away from sources of he	-		
6. 2.	Environmental Precautions	Avoid contact with skin and ey	es. Do not ingest of innale.		
0. 2.					
	Environmental precautions:	Prevent contamination of soils	drains and surface water		
			duct pollutes soil or vegetation.		
6. 3.	Methods and Material for Containment ar		, C		
	Methods and material:	•			
	Methodo and Material.	Remove large amounts with a	pump.		
		•	al (sand, diatomaceous earth, acid		
6. 4.	Reference to other Sections				
		Protective clothing, see Sectio	n 8.		
7.	Handling and Storage				
7. 1.	Precautions for Safe Handling				
	Instructions on safe handling:				
		Keep containers tightly closed			
		Provide adequate ventilation.			
	Liveriania magaziraa				

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		Take off contaminated clothing immediate	
		Avoid contact with eyes and skin.	
		Do not inhale gas/fumes/vapours/aerosol	ls.
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 stee chloride, polyester.	el, carbon steel, polyving
		Unsuitable container material: natural rub polystyrol, polyethylene.	bber, butyl rubber,
	Information on fire and explosion protection:		
		Combustible liquid.	
		Vapors may form an explosive mixture wi than air and spreads along the ground.	ith air. Vapor is heavier
		Do not store together with ignitable sourc	es, heat and fire.
		Take measures to prevent electrostatic d	-
		Do not store together with: strong oxidant	ts.
	Storage class:		
		3; Flammable liquids (TRGS 510)	
	Further Information:		
7.3.	Specific End Use(s)		
	Further information:		
		No information available.	
8.	Exposure Controls/Personal Pro	tection	
8. 1.	Parameters to be Controlled		
	Parameters to be controlled (DE):		
		TRGS 900	
		Hydrocarbons, C9-C11, n-Alkanes, Isoall aromatics: 250 mg/m3 (TWA)	kanes, Cyclenes, <2%
	Parameters to be controlled:		
	Derived No-Effect Level (DNEL):		
		Hydrocarbons, C11-C14, n-Alkanes, Isoa Aromatics:	alkanes, Cyclenes, <2 %
		208 mg/kg bw/d (worker, skin contact, lor systemic effects)	ng-term exposition -
		871 mg/m3 (worker, inhalation, long-term effects)	exposition - systemic
		125 mg/kg bw/d (consumer, skin contact/ exposition - systemic effects)	/swallowing, long-term
		185 mg/m3 (consumer, inhalation, long-te	erm exposition - system next page:

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		effects)	
		•	anes, Cyclics, <2 % Aromatics:
		effects)	long-term exposition - systemic
		77 mg/m3 bw/d (worker, skin c systemic effects)	ontact, long-term exposure -
		185 mg/m3 (consumer, inhalat effects)	ion, long-term exposition - systemic
		46 mg/kg bw/d (consumer, skii exposition - systemic effects)	n contact/swallowing, long-term
	Predicted No-Effect Concentration (PNEC):		
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:		
		No further measures, see Sect	ion 7 and 8.
	Personal Protection		
	General protective measures:		
			l drinks. Do not eat, drink or smoke re breaks and at the end of work.
	Respiratory protection:		
		Respiratory equipment require filter type A (organic gases and	d in case of insufficient ventilation, I vapors).
	Hand protection:		
		Solvent resistant protective glo	ves.
	Protective glove material:		
	C C	Nitrile rubber (480 min, 0.4 mm	n)
		Fluoro carbon rubber - FKM (4	80 min; > 0.4 mm).
	Eye protection:		
		Tightly fitting safety goggles (E	N 166).
	Body protection:		
		Protective clothing.	
	Environmental precautions:		
		Prevent contamination of open Avoid contamination of ground	water ways and sewage system. water.
9.	Physical and Chemical Propertie	es	
9. 1.	Information on Basic Physical and Chemic	al Properties	
	Form:	liquid	
	Color:	colorless	
	Odor:	gasoline-like	
	Odor threshold:		
		No information available.	

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		not applicable	Filited.	20.04.2020
	Melting temperature:	-20°C		
	Boiling temperature:	130 - 193°C		
	Flash point:	> 23°C		
	Evaporation rate:	0.2 (Butylacetat=1)		
	Flammability (solid, gas):			
	· · · · · · · · · · · · · · · · · · ·	not applicable		
	Upper explosion limit:	7 Vol%		
	Lower explosion limit:	0.6 Vol%		
	Vapor pressure:	0.3 - 0.6 kPa (20°C)		
	Vapor density:			
		No information available.		
	Density:	0.75 - 0.8 g/cm3 (15°C)		
	Solubility in water:	negligible		
	Coefficient of variation (n- Octanol/Water):			
		no information available		
	Auto-ignition temperature:	> 200°C		
	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:	0.7 - 2 mm2/s (20°C)		
	Burning class:			
	Solvent content:			
	Solid content:			
	Particle size:			
	Other information:			
10.	Stability and Reactivity			
10 1	Boostivity			

10.1. Reactivity

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10.2.	Chemical Stability	No decomposition if used according	a to specifications.		
10.3.	Possibility of Hazardous Reactions		,		
		Formation of explosive vapor-air-mi	ixtures possible.		
10.4.	Conditions to Avoid				
	Conditions to avoid:				
		Avoid contact with heat, sparks and	l open fire.		
	Thermal decomposition:				
		No data available.			
10.5.	Imcompatible Materials	Strong oxidizing agents.			
10.6.	Hazardous Decomposition Products	Strong oxidizing agents.			
10.0.		Carbon oxides			
		Thermal decomposition may yield to	oxic or irritating ga	ses.	
10.7.	Further Information				
11.	Toxicological Information				
11. 1.	Information on Toxicological Effects				
	Acute Toxicity				
	LD50, oral:				
		Hydrocarbons, C9-C11, n-Alkanes, aromatic (< 2 %): > 5000 mg/kg (rai	<i>t</i>)		
		Hydrocarbons, C9-C11, Isoalkanes %): > 5000 mg/kg (rat; OECD 401)	, Cycloalkanes, ar	omatic (< 2)
	LD50, dermal:				
		Hydrocarbons, C9-C11, n-Alkanes, aromatic (< 2 %): > 5000 mg/kg (rai	bbit)		
		Hydrocarbons, C9-C11, Isoalkanes %): > 3160 mg/kg (rabbit, m/f; OEC		omatic (< 2	
	LC50, inhalation:				
		Hydrocarbons, C9-C11, Isoalkanes %): > 5 mg/kg (rat; OECD 403)	, Cycloalkanes, ar	omatic (< 2	!
	Primary effects				
	Irritant effect on skin:				
		Prolonged skin contact may defat th	he skin and produc	e dermatiti	s.
	Irritant effect on eyes:				
		Causes eye ailments, however doe	s not damage the	eye tissue.	
	Inhalation:				
		No information available.			
	Ingestion:	No information available			
		No information available			
	Sensitization:	No sensitizing effects known.			
	Mutagenicity:		nex	kt page:	9

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		No mutagenic effects observed.	
	Reproductive toxicity:		
		Does not contain any componen reproduction.	t classified as toxic for
	Carcinogenicity:		
		Does not contain any componen	t classified as carcinogenic.
	Teratogenicity:		
		Not considered to be teratogenic	2.
	Specific target organ toxicity (STOT):		
		Single exposure: may cause dro	wsiness or dizziness.
		Repeated exposure: the substar specific target organ toxicant.	nce or mixture is not classified as
	Additional toxicological information:		
		Aspiration toxiciity: may be fatal	•
		Inhalation: Long-term overexpos dizziness, tiredness, nausea and	
		Aspiration into the lungs when su chemical pneumonitis.	wallowed or vomited may cause
12.	Ecological Information		
12. 1.	Aquatic Toxicity		
	Fish toxicity:		
		Hydrocarbons, C9-C11, n-Alkan aromatic (< 2 %): LL50: > 1000 I	es, Isoalkanes, Cyclenes, mg/l (96h, Oncorhynchus mykiss)
		Hydrocarbons, C9-C11, Isoalkar %): LL50: 3.6 mg/l (96h, Oncorh	nes, Cycloalkanes, aromatic (< 2 ynchus mykiss; OECD 203)
	Daphnia toxicity:		
		Hydrocarbons, C9-C11, n-Alkan aromatisch (< 2 %): EL0: 1000 n	-
		Hydrocarbons, C9-C11, Isoalkar %): EL50: 22 - 46 mg/l (48h, Daj	nes, Cycloalkanes, aromatic (< 2 phnia magna; OECD 202)
	Bacteria toxicity:		
		no information available	
	Algae toxicity:		
		Hydrocarbons, C9-C11, n-Alkan aromatic (< 2 %): EL50: > 1000 subcapitata): NOELR: 100 mg/l	
		Hydrocarbons, C9-C11, Isoalkar	hes, Cycloalkanes, aromatisch (< dokirchneriella subcapitata; OEC
2. 2.	Persistency and Degradability		
		The product floats on the water s	surface and does not dissolve.
		The product evaporates easily fr	
		The individual components are r	
		Hydrocarbons, C9-C11, n-Alkan aromatic (< 2 %): 80 % (28d); re	adily biodegradable
		Hydrocarbons, C9-C11, Isoalkar	nes, Cycloalkanes, aromatic (< 2

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Bioaccumulation	, b). Todany stodogradasio	
	No information available.	
Mobility		
	Product floats on water and is no	ot soluble in water.
Populto of PPT, and vDvD Appagament	Product is readily volatile.	
	The contents of the preparation the classification as PBT or vPvI	do not comply with the criteria for B.
Other Adverse Effects		
Water hazard class:		
	1, slightly hazardous Do not let product contaminate <u>g</u> sewage system.	ground water, waterways or
Behaviour in sewage systems:		
Further ecological effects:		
AOX Value:		
Disposal Considerations		
Waste Treatment Methods		
Product:		
	Must not be disposed together w	
	Do not let product enter water sy Product can be incinerated, whe regulations.	
European Waste Code (EWC):		
Uncleaned packaging:		
, , ,	Empty container completely. Re hazard.	sidues may cause an explosion
	Empty containers should be take	cleaned drums. Risk of explosion. en to an approved waste handling
Waste Code No.:		
Transport Information		
UN Number		
ADR, IMDG, IATA	3295	
UN Proper Shipping Name		
ADR/RID:	KOHLENWASSERSTOFFE, FL	ÜSSIG, N.A.G. (Kohlenwasserstoff
IMDG/IATA:	HYDROCARBONS, LIQUID, N. isoalkanes, cyclics, <2% aromat	
IMDG/IATA: Transport Hazard Classes		
	Mobility Results of PBT- und vPvP Assessment Other Adverse Effects Water hazard class: Behaviour in sewage systems: Further ecological effects: AOX Value: Disposal Considerations Waste Treatment Methods Product: European Waste Code (EWC): Uncleaned packaging: Waste Code No.: Transport Information UN Number ADR, IMDG, IATA	MobilityNo information available.MobilityProduct floats on water and is meroduct is readily volatile.Results of PBT- und vPvP AssessmentThe contents of the preparation the classification as PBT or vPv.Other Adverse EffectsThe contents of the preparation the classification as PBT or vPv.Water hazard class:1, slightly hazardous Do not let product contaminate geswage system.Behaviour in sewage systems:European ConsiderationsFurther ecological effects:AOX Value:Disposal ConsiderationsMust not be disposed together were guilations.Product:Must not be disposed together were guilations.European Waste Code (EWC):Empty container completely. Rehazard. Do not puncture, cut or weld und Empty containers should be take site for recycling or disposal.Waste Code No.:Transport Information UN Number ADR, IMDG, IATA3295

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	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:	<i>III</i>	
	IMDG:	<i>III</i>	
	IATA:	<i>III</i>	
14. 5.	Environmental Hazards		
		Labelling according 5.2.1.8 AD	
		Labelling according 5.2.1.6.3 I Classification as environmenta	
		IMDG: yes	
44.0		Labelled with "P" according 2.	10 IMDG: yes
14. 6.	Special Precautions for User	not applicable	
14. 7.	Transportation in Bulk according to An		
		IMDG: not applicable	
14. 8.	Further Information		
15.	Regulatory Information		
15. 1.	Safety, Health and Environmental Regu	lations/Legislation specific for the Substan	nce or Mixture
	Water hazard class:	A - Bablic barrandaria fanna fan ser	
		1, slightly hazardous for water Regulation AwSV)	(according to the German
	Local regulations on chemical accid		
		Underlies the Accident Ordina	nce 2.3
	Employment restrictions:	The employment restrictions f	r over atom and evening mothers
		accordance with the Maternity observed.	or expectant and nursing mothers i Protection Guideline are to be
		The employment restrictions for the Youth Employment Protect	or young workers in accordance w ion Law are to be observed.
	Restriction and prohibition of applic	ation:	
		EC. REACH, Section XVII, Re Placing on the Market and Use Preparations and Articles, Reg	of Certain Dangerous Substance
	Technical instructions on air quality	?.	
15. 2.	Chemical Safety Assessment		
		A Chamical Cafety Accessor	the shear a suried suffer their

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		product.		
15. 3.	Further Information			
		EU. Directive 2010/75/EU, VOC	C content 100 %	
16.	Other Information			
		This product should be stored, with good hygiene practices and regulations. This information co present state of knowledge and from the point of view of safety therefore not be construed as g	d in conformity with an ontained herein is base I is intended to describ requirements. It should	y legal d on the e our product d be