Printing date 24.07.2018	Version number 9	Revision: 24.07.2018		
SECTION 1: Identification of the substance/mixture and of the company/undertaking				
· 1.1 Product identifier				
· Trade name:	Darkener Super			
 <u>Article number:</u> <u>1.2 Relevant identified uses of</u> the substance or mixture and 	10940, 10941, 10939, 10943, 10944			
uses advised against · Application of the substance / the	No further relevant information available.			
mixture	Protective impregnation			
• 1.3 Details of the supplier of the	safety data sheet			
· Manufacturer/Supplier:	AKEMI chemisch technische Spezialfabrik GmbH Lechstrasse 28 D 90451 Nürnberg	Tel. +49(0)911-642960 Fax. +49(0)911-644456 e-mail info@akemi.de		
 Further information obtainable from: 1.4 Emergency telephone 	Laboratory			
number:	Product Safety Department AKEMI chemisch technisch Tel. +49(0)911-64296-59 Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m. Friday from 07:30 a.m. to 13:30 p.m. +44 (171) 635 91 91 National Poison Inform. Centre Medical Toxicology Unit Avalonley Road London SE14 5ER	he Spezialfabrik GmbH		
SECTION 2: Hazards identification • 2.1 Classification of the substance • Classification according to Regulation	ce or mixture			
GHS02 flame				
Flam. Liq. 3 H226 Flammab	le liquid and vapour.			
GHS08 health hazard				
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.				
GHS09 environment				
Aquatic Chronic 2 H411 Toxic to a	equatic life with long lasting effects.			
 <u>2.2 Label elements</u> Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms 	The product is classified and labelled according to the	CLP regulation.		
	GHS02 GHS08 GHS09			
 Signal word 	Danger			
Hazard-determining components of labelling:	Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics	(Contd. on page 2)		

Printing date 24.07.2018		Version number 9	Revision: 24.07.2018
Trade name: Darkener Super			
			(Contd. of page 1)
	2.2.4.6.	6-pentamethylheptan	(Conta. of page 1)
		a (petroleum), heavy alkylate	
		Isoalkanes	
 Hazard statements 	H226 FI	ammable liquid and vapour.	
	H304 M	ay be fatal if swallowed and enters airwa	ays.
	H411 To	oxic to aquatic life with long lasting effect	
 Precautionary statements 	P101	If medical advice is needed, hav hand.	e product container or label at
	P102	Keep out of reach of children.	
	P103	Read label before use.	
	P210	Keep away from heat, hot surfaces ignition sources. No smoking.	s, sparks, open flames and other
	P260	Do not breathe mist/vapours/spray.	
	P273	Avoid release to the environment.	
	P280	Wear protective gloves.	
	P301+P	310 IF SWALLOWED: Immediately call	a POISON CENTER/ doctor.
	P331	Do NOT induce vomiting.	
		352 IF ON SKIN: Wash with plenty of wa	
		235 Store in a well-ventilated place. Kee	ep cool.
	P405	Store locked up.	
	P501	Dispose of contents/container in	accordance with local/regional/
		national/international regulations.	
Additional information:	EUH066	S Repeated exposure may cause skin dr	yness or cracking.
• 2.3 Other hazards			
 Results of PBT and vPvB asse PBT: 	essment Not app	liaabla	
• <u>FB1.</u> • vPvB:	Not app		
· <u>vFvB.</u>	Νοι αρρ		
SECTION 3: Composition/inf	ormation on	ingredients	
2.2 Chamical characterizatio	n. Mixturaa	-	
 3.2 Chemical characterisatio Description: 		of substances listed below with nonhaza	vrdoue additions
	wixture	of substances listed below with normaza	
Dangerous components:			
EC number: 923-037-2		oons, C10-C12, Isoalkanes, <2% aroma	tics 25-50%
Reg.nr.: 01-2119471991-29-xx	🛚 🐼 🔆 🔍 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Liq. 3, H226	
		ox. 1, H304	
	· · ·	c Chronic 2, H411	
CAS: 13475-82-6	2,2,4,6,6-	pentamethylheptan	25-50%

CAS: 13475-82-6	2,2,4,6,6-pentamethylheptan	25-50%
EINECS: 236-757-0 Reg.nr.: 01-2119490725-29	 Flam. Liq. 3, H226 Asp. Tox. 1, H304 	
	Aquatic Chronic 4, H413	
CAS: 67-56-1	methanol	<1%
EINECS: 200-659-6	🚸 Flam. Liq. 2, H225	
Index number: 603-001-00-X	🔆 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	
Reg.nr.: 01-2119433307-44	🕹 STOT SE 1, H370	
 Additional information: 	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid m	leasures
General information:	Take affected persons out into the fresh air.
	Position and transport stably in side position.
	Immediately remove any clothing soiled by the product.
 After inhalation: 	Supply fresh air; consult doctor in case of complaints.
After skin contact:	If skin irritation continues, consult a doctor.
	Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3) GB



Printing date 24.07.2018

Version number 9

Revision: 24.07.2018

rade name: Darkener Super	
	(Contd. of page 2)
<u>After eye contact:</u>	Rinse opened eye for several minutes under running water. Then consult a doctor.
 After swallowing: 	If symptoms persist consult doctor.
4.2 Most important symptoms	
and effects, both acute and delayed	Breathing difficulty
delayed	Headache
	Dizziness
	Dizziness
	Nausea
Information for doctor:	Profuse sweating
	Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g) a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal
	dysfunction, state of excitement, coma.
	b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation,
	cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.
	Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air;
	in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of
	cramps administration of Diazepam 20 mg intravenously.
· Hazards	Danger of impaired breathing.
4.3 Indication of any immediate	
medical attention and special	If availanced, approximation with added, activated park on
treatment needed	If swallowed, gastric irrigation with added, activated carbon.
5.1 Extinguishing media Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents:	Water with full jet
• 5.2 Special hazards arising from	
the substance or mixture	Formation of toxic gases is possible during heating or in case of fire.
	In case of fire, the following can be released:
	Carbon monoxide (CO)
- 5.3 Advice for firefighters	Under certain fire conditions, traces of other toxic gases cannot be excluded.
Protective equipment:	Do not inhale explosion gases or combustion gases.
	Wear fully protective suit.
	Wear self-contained respiratory protective device.
<u>Additional information</u>	Dispose of fire debris and contaminated fire fighting water in accordance with
	official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage
	system.
SECTION 6: Accidental release r	neasures
· 6.1 Personal precautions,	
protective equipment and	
emergency procedures	Ensure adequate ventilation
	Keep away from ignition sources. Use respiratory protective device against the effects of fumes/dust/aerosol.
	Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions:	Do not allow product to reach sewage system or any water course.
	Inform respective authorities in case of seepage into water course or sewage system

system.



nting date 24.07.2018	Version number 9	Revision: 24.07.207
ade name: Darkener Super		
	Do not allow to optor cowers/ ourface or ground water	(Contd. of page
6.3 Methods and material for	Do not allow to enter sewers/ surface or ground water.	
containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite,	. acid binders. univers
<u></u>	binders, sawdust).	
	Dispose contaminated material as waste according to it	em 13.
6.4 Reference to other sections	Ensure adequate ventilation. See Section 7 for information on safe handling.	
6.4 Reference to other sections	See Section 7 for information on personal protection eq	uinment
	See Section 13 for disposal information.	
SECTION 7: Handling and storage	ge	
7.1 Precautions for safe		
handling	Store in cool, dry place in tightly closed receptacles.	
	Keep away from heat and direct sunlight.	
	Ensure good interior ventilation, especially at floor le	evel. (Fumes are heavi
	than air). Use only in well ventilated areas.	
	Keep receptacles tightly sealed.	
	Ensure good ventilation/exhaustion at the workplace.	
Information about fire - and		
explosion protection:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.	
7.2 Conditions for safe storage,	including any incompatibilities	
Storage: Requirements to be met by		
storerooms and receptacles:	Store only in the original receptacle.	
	Prevent any seepage into the ground.	
Information about storage in one	Store over from evidining egente	
common storage facility:	Store away from oxidising agents. Store away from foodstuffs.	
Further information about storage		
conditions:	Store receptacle in a well ventilated area.	
	Keep container tightly sealed.	
7.3 Specific end use(s)	No further relevant information available.	
SECTION 8: Exposure controls/p	personal protection	
Additional information about	No funth on electric constituent 7	
design of technical facilities:	No further data; see item 7.	
8.1 Control parameters Ingredients with limit values that re	quire monitoring at the workplace:	
67-56-1 methanol		
WEL Short-term value: 333 mg/m ²	³ , 250 ppm	
Long-term value: 266 mg/m ³ Sk		
Additional information:	The lists valid during the making were used as basis.	
8.2 Exposure controls		
Personal protective equipment:		
General protective and hygienic		
measures:	Do not eat, drink, smoke or sniff while working.	
	Apply solvent resistant skin cream before starting work. Use skin protection cream for skin protection.	
	Keep away from foodstuffs, beverages and feed.	
	Immediately remove all soiled and contaminated clothin	
		(Contd. on page



Printing date 24.07.2018	Version number 9	Revision: 24.07.2018
rade name: Darkener Super		
	Wash hands before breaks and at the end of w Do not inhale gases / fumes / aerosols.	(Contd. of page 4)
<u>Respiratory protection:</u>	Filter AX In case of brief exposure or low pollution use intensive or longer exposure use self-contained	
Protection of hands:	Preventive skin protection by use of skin-protection After use of gloves apply skin-cleaning agents	cting agents is recommended.
	Protective gloves	
	Skin protection agent recommend without use of protective gloves: STOKODERM(http://www.stoko.com Skin protection agent recommenda	n)
	application and combination of prote STOKO EMULSION (http://www.stol	ctive gloves: ko.com)
	Skin protection recommendation handling: FRAPANTOL (http://www.stoko.com)
	Skin protection agent recommendati STOKO VITAN (http://www.stoko.co The protection gloves to be us	m)
	specifications of the directive 89/6 decree EN374, respectively, e.g. t type. The mentioned permeation t verified with material samples of th type in the scope of laboratory anyly	he above listed protection glove times´ data were generated and e recommended protection glove
	compliance with EN374. This recommendation refers exclus sheet referenced product delivered by application. In case of product dil different substances or chemicals, at the producer of CE-approved protect	by Akemi and the indicated field of lution or in case of mixture with nd in condition of EN374 deviation ction gloves must be contacted for
	detailed information (e.g., KCL Gm internet: http://www.kcl.de). The glove material has to be im	permeable and resistant to the
	product/ the substance/ the preparat Due to missing tests no recommend given for the product/ the preparation Selection of the glove material on	lation to the glove material can be n/ the chemical mixture.
· Material of gloves	times, rates of diffusion and the degr Fluorocarbon rubber (Viton) Nitrile rubber, NBR	
	The selection of the suitable gloves does not also on further marks of quality and varies fro As the product is a preparation of several s glove material can not be calculated in advanc	om manufacturer to manufacturer. ubstances, the resistance of the
Penetration time of glove materia	 prior to the application. Value for the permeation: Level ≤ 6, 480 min The exact break trough time has to be found protective gloves and has to be observed. 	d out by the manufacturer of the
• For the permanent contact glove made of the following materials a	s are	
suitable:	Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890) Nitrile rubber, NBR	
		(Contd. on page 6)





Printing date 24.07.2018

Version number 9

Revision: 24.07.2018

	(Control of poor
	(Contd. of pag Camatril (KCL, Art_No. 730, 731, 732, 733)
As protection from splashes glove	es
made of the following materials a	
suitable:	Nitrile rubber, NBR
Not suitable are gloves made of	Camatril (KCL, 730, 731, 732, 733)
the following materials:	Leather gloves
<u> </u>	Strong material gloves
Eye protection:	
	Tightly sealed goggles
Body protection:	Protective work clothing
SECTION 9: Physical and chem	nical properties
9.1 Information on basic physic	
General Information	
Appearance:	
<u>Form:</u> Colour:	Fluid Colourless
Odour:	Characteristic
pH-value:	Not applicable
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling ra	
Flash point:	> 40 °C
Ignition temperature:	240 °C
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapo
	mixtures are possible.
Explosion limits:	
Lower:	0.6 Vol %
<u>Upper:</u>	7 Vol %
Vapour pressure at 20 °C:	1 hPa
Density at 20 °C:	0.85 g/cm ³
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	11 s (DIN 53211/4)
Solvent content:	
Organic solvents:	59.7 %
Solids content:	29.8 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

*

No further relevant information available.

according to 1907/2006/EC, Article 31



Printing date 24.07.2018 Version number 9 Revision: 24.07.2018 Trade name: Darkener Super (Contd. of page 6) · 10.2 Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications. · 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents. Forms flammable gases/fumes. No further relevant information available. · 10.4 Conditions to avoid · 10.5 Incompatible materials: No further relevant information available. · 10.6 Hazardous decomposition Carbon monoxide and carbon dioxide products: **SECTION 11: Toxicological information** · 11.1 Information on toxicological effects · Acute toxicity Based on available data, the classification criteria are not met. · LD/LC50 values relevant for classification: Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics LD50 >5,000 mg/kg (rat) Oral Inhalative LC50/8h >5 mg/l (rat) 13475-82-6 2,2,4,6,6-pentamethylheptan Oral LD50 >5,000 mg/kg (rat) Inhalative LC50/8h >5 ppm (rat) · Primary irritant effect:

 Skin corrosion/irritation 	Based on available data, the classification criteria are not met.
 Serious eye damage/irritation 	Based on available data, the classification criteria are not met.
 Respiratory or skin sensitisation 	Based on available data, the classification criteria are not met.
· CMR effects (carcinogenity, mutag	enicity and toxicity for reproduction)
 Germ cell mutagenicity 	Based on available data, the classification criteria are not met.
 Carcinogenicity 	Based on available data, the classification criteria are not met.
 Reproductive toxicity 	Based on available data, the classification criteria are not met.
 STOT-single exposure 	Based on available data, the classification criteria are not met.
 STOT-repeated exposure 	Based on available data, the classification criteria are not met.

· Aspiration hazard

SECTION 12: Ecological information

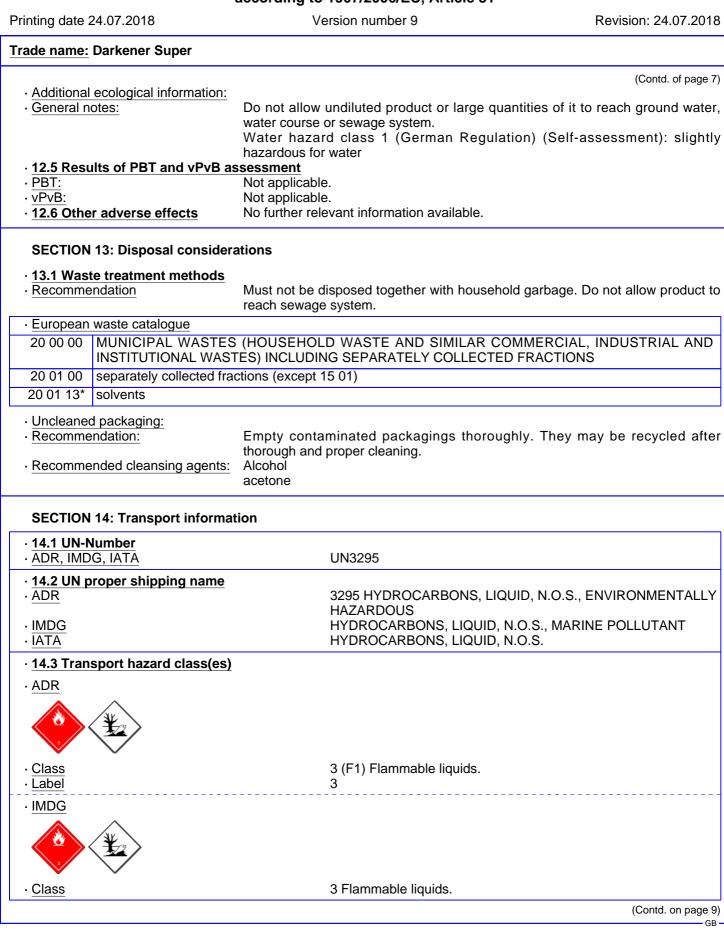
· 12.1 Toxicity

 Aquatic toxic 	Aquatic toxicity:		
Hydrocarbo	Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics		
EL0/48h	1,000 mg/l (daphnia magna)		
EL0/72h	1,000 mg/l (Pseudokirchneriella subcapitata)		
LL0/96h	1,000 mg/l (Oncorhynchus mykiss)		
NOELR/72h	2h 1,000 mg/l (Pseudokirchneriella subcapitata)		
NOELR/21d	NOELR/21d <1 mg/l (daphnia magna)		
13475-82-6 2,2,4,6,6-pentamethylheptan			
IC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)		
EC50/48h	>1,000 mg/l (daphnia magna)		
LC50/96h	>1,000 mg/l (Oncorhynchus mykiss)		
· 12.2 Persist			
degradabilit			
	cumulative potential No further relevant information available.		
• <u>12.4 Mobility</u>		e 8)	
· <u>12.4 MODIIII</u>	(Contd. on page	; 8)	

May be fatal if swallowed and enters airways.

AKEMI®

according to 1907/2006/EC, Article 31



according to 1907/2006/EC, Article 31

Printing date 24.07.2018

Version number 9

Revision: 24.07.2018

AKEMI[®]

Trade name: Darkener Super	
	(Contd. of page 8)
· <u>Label</u>	3
· <u>IATA</u>	
	3 Flammable liquids.
	3
· <u>14.4 Packing group</u> · <u>ADR, IMDG, IATA</u>	III
 • <u>14.5 Environmental hazards:</u> • <u>Marine pollutant:</u> • <u>Special marking (ADR):</u> 	Product contains environmentally hazardous substances: Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number: Stowage Category	F-E,S-D A
• 14.7 Transport in bulk according to Annex I	· · ·
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
 ADR Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
 Transport category Tunnel restriction code 	3 D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU			
· Named dangerous substances -			
ANNEXI	None of the ingredients is listed.		
Seveso category	E2 Hazardous to the Aquatic Environment		
	P5c FLAMMABLE LIQUIDS		
· Qualifying quantity (tonnes) for the			
application of lower-tier			
requirements	200 t		
· Qualifying quantity (tonnes) for the			
application of upper-tier			
requirements	500 t		
		(Contd. on page 10)	
			-

according to 1907/2006/EC, Article 31

Printing date 24.07.2018 Version number 9 Revision: 24.07.2018 Trade name: Darkener Super (Contd. of page 9) REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40 National regulations: · Information about limitation of use: Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed. Water hazard class 1 (Self-assessment): slightly hazardous for water. · Waterhazard class: VOC EU 504.3 g/l 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. **SECTION 16: Other information** This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Relevant phrases H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H331 Toxic if inhaled. H370 Causes damage to organs. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. refer to Technical Data Sheet (TDS) · Recommended restriction of use Department issuing SDS: Laboratory · Contact: Dieter Zimmermann RID: Règlement international concernant le transport des marchandises dangereuses par chemin de Abbreviations and acronyms: fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 3: Acute toxicity - Category 3 STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 * Data compared to the previous version altered. Adaptation in accordance with REACH directive 1907/2006/EC GE

