**AKEMI**<sup>®</sup>

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.08.2021	Version number 8	Revision: 10.08.2021
SECTION 1: Identification of the	substance/mixture and of the company/undertakin	g
· 1.1 Product identifier		
· Trade name:	Duro Impregnator	
· Article number:	12047, 12048	
· <u>UFI:</u> · 1.2 Relevant identified uses of	QS48-KQT6-R31D-N040	
the substance or mixture and		
uses advised against · Application of the substance / the	No further relevant information available.	
mixture	Protective impregnation	
• <b>1.3 Details of the supplier of the</b> • Manufacturer/Supplier:	<u>safety data sheet</u> 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
<ul> <li>Further information obtainable from:</li> <li>1.4 Emergency telephone</li> </ul>	Laboratory	
<u>number:</u>	Product Safety Department AKEMI chemisch technis 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	che Spezialfabrik GmbH
•	<b>ce or mixture</b> ion (EC) No 1272/2008 le liquid and vapour. ital if swallowed and enters airways.	
2.2 Label elements		
Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms	The product is classified and labelled according to the	e CLP regulation.
	GHS02 GHS08 GHS09	
· Signal word	Danger	
· Hazard-determining components o	f	
labelling:	2,2,4,6,6-pentamethylheptan	
· Hazard statements	Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics H226 Flammable liquid and vapour.	
· Precautionary statements	<ul> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>P101 If medical advice is needed, have produce</li> <li>P102 Keep out of reach of children.</li> <li>P103 Read carefully and follow all instructions.</li> <li>P210 Keep away from heat, hot surfaces, space</li> </ul>	
	ignition sources. No smoking. P260 Do not breathe mist/vapours/spray.	
	P273 Avoid release to the environment.	(Contd. on page 2)
		GB

Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

Trade name: Duro Impregnator

Trade fiame. Duro impregnator		
		d. of page 1)
<ul> <li><u>Additional information:</u></li> <li>2.3 Other hazards</li> </ul>	<ul> <li>P280 Wear protective gloves.</li> <li>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ d</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel un</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local national/international regulations.</li> <li>EUH066 Repeated exposure may cause skin dryness or cracking.</li> </ul>	well.
· Results of PBT and vPvB assessr	nent	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	
· <u>3.2 Chemical characterisation: I</u> · <u>Description:</u> · <u>Dangerous components:</u>	Mixtures Mixture: consisting of the following components.	
CAS: 13475-82-6 EINECS: 236-757-0 Reg.nr.: 01-2119490725-29	2,2,4,6,6-pentamethylheptan Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413	25-50%
EC number: 923-037-2 Reg.nr.: 01-2119471991-29-xxxx	Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	25-50%
CAS: 78-10-4 EINECS: 201-083-8 Index number: 014-005-00-0 Reg.nr.: 01-2119496195-28	tetraethyl silicate Flam. Liq. 3, H226 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	<1%
CAS: 3648-18-8 EINECS: 222-883-3 Reg.nr.: 01-2119979527-19-0000	Dioctyltin dilaurate Repr. 1A, H360D; STOT RE 1, H372 Aquatic Chronic 3, H412	<1%
· <u>SVHC</u>		
3648-18-8 Dioctyltin dilaurate		
· 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 measures

General information:	Take affected persons out into the fresh air.
	Position and transport stably in side position.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	If skin irritation continues, consult a doctor.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	If symptoms persist consult doctor.
Information for doctor:	<ul> <li>Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)</li> <li>a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.</li> <li>b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.</li> </ul>
	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.
	(Contd. on page 3)

- GB



Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

	(Cantal afraar
4.2 Most important symptoms	(Contd. of page
and effects, both acute and	
delayed	Headache
<u></u>	Dizziness
	Dizziness
	Nausea
	Breathing difficulty
	Coughing
	Profuse sweating
Hazards	Danger of impaired breathing.
4.3 Indication of any immediate	
medical attention and special treatment needed	If swallowed, gastric irrigation with added, activated carbon.
treatment needed	If swallowed or in case of vomiting, danger of entering the lungs.
	in swallowed of in case of vorniting, danger of entening the lungs.
SECTION 5: Firefighting measure	es
5.1 Extinguishing media	
Suitable extinguishing agents:	CO2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable	
extinguishing agents:	Water
	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)
	Under certain fire conditions, traces of other toxic gases cannot be excluded.
5.3 Advice for firefighters	Mean calf contained recritetory protective device
Protective equipment:	Wear self-contained respiratory protective device.
	Do not inhale explosion gases or combustion gases. Wear fully protective suit.
Additional information	Dispose of fire debris and contaminated fire fighting water in accordance w
	official regulations.
	Collect contaminated fire fighting water separately. It must not enter the sewa
	system.
SECTION 6: Accidental release n	neasures
6.1 Personal precautions,	
protective equipment and emergency procedures	Ensure adequate ventilation
entergency procedures	Keep away from ignition sources.
	Use respiratory protective device against the effects of fumes/dust/aerosol.
6.2 Environmental precautions:	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course.
6.2 Environmental precautions:	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system.
	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa
6.3 Methods and material for	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water.
	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, univers
6.3 Methods and material for	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, universibinders, sawdust).
6.3 Methods and material for	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, universibinders, sawdust). Dispose contaminated material as waste according to item 13.
6.3 Methods and material for	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, universibinders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
6.3 Methods and material for containment and cleaning up:	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, universibinders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
6.3 Methods and material for	Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewa system. Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, univers binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.



Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

			(Contd. of pag
		See Section 13 for disposal information.	
SECTION	7: Handling and storage	)	
	utions for safe		
handling		Keep receptacles tightly sealed. Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight. Ensure good interior ventilation, especially at floor level. (F air). Use only in well ventilated areas. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.	<sup>-</sup> umes are heavier t
		Keep ignition sources away - Do not smoke. Protect against electrostatic charges.	
	tions for safe storage, in	cluding any incompatibilities	
Storage: Requirement	ents to be met by		
	s and receptacles:	Store only in the original receptacle.	
Informatio	n about storage in one	Prevent any seepage into the ground.	
	storage facility:	Store away from oxidising agents.	
Further inf	formation about storage	Store away from foodstuffs.	
conditions	<u>:</u> :	Store receptacle in a well ventilated area.	
		Store in a cool place. Protect from frost.	
		Keep container tightly sealed.	
Storage cl	ass:	Keep container tightly sealed. 3	
	ass:	Keep container tightly sealed. 3 No further relevant information available.	
7.3 Specif	<u>ass:</u> fic end use(s)	3 No further relevant information available.	
7.3 Specif	ass: fic end use(s) 8: Exposure controls/pe	3 No further relevant information available.	
7.3 Specif SECTION 8.1 Contro	ass: fic end use(s) 8: Exposure controls/pe ol parameters	3 No further relevant information available.	
7.3 Specif SECTION 8.1 Contro Additional	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design	3 No further relevant information available.	
7.3 Specif SECTION 8.1 Contro Additional of technica	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities:	3 No further relevant information available. ersonal protection	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requ etraethyl silicate	3 No further relevant information available. ersonal protection No further data; see item 7. uire monitoring at the workplace:	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requ	3 No further relevant information available. ersonal protection No further data; see item 7. uire monitoring at the workplace:	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requ etraethyl silicate	3 No further relevant information available. ersonal protection No further data; see item 7. uire monitoring at the workplace:	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELs	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requ traethyl silicate g-term value: 44 mg/m³, 5	3 No further relevant information available. ersonal protection No further data; see item 7. uire monitoring at the workplace:	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELs	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requ straethyl silicate g-term value: 44 mg/m³, 5	3 No further relevant information available. ersonal protection No further data; see item 7. uire monitoring at the workplace: ppm 12.1 mg/kg bw/day (ARB)	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELs 78-10-4 te	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requ traethyl silicate g-term value: 44 mg/m³, 5 etraethyl silicate DNEL (Kurzzeit-akut)	3         No further relevant information available.         ersonal protection         No further data; see item 7.         uire monitoring at the workplace:         ppm         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELs 78-10-4 te	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requ traethyl silicate g-term value: 44 mg/m³, 5	3       No further relevant information available.         ersonal protection         No further data; see item 7.         uire monitoring at the workplace:         ppm         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         12.1 mg/kg bw/day (ARB)	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELS 78-10-4 te Dermal	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requer traethyl silicate g-term value: 44 mg/m³, 5 etraethyl silicate DNEL (Kurzzeit-akut) DNEL (Langzeit-wiederhold)	3 No further relevant information available. ersonal protection No further data; see item 7. uire monitoring at the workplace: ppm 12.1 mg/kg bw/day (ARB) 8.4 mg/kg bw/day (BEV) 12.1 mg/kg bw/day (ARB) 8.4 mg/kg bw/day (BEV)	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELS 78-10-4 te Dermal	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requ traethyl silicate g-term value: 44 mg/m³, 5 etraethyl silicate DNEL (Kurzzeit-akut)	3 No further relevant information available. ersonal protection No further data; see item 7. uire monitoring at the workplace: ppm 12.1 mg/kg bw/day (ARB) 8.4 mg/kg bw/day (BEV) olt) 12.1 mg/kg bw/day (BEV) 8.4 mg/kg bw/day (BEV) 8.5 mg/m³ Air (ARB)	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELS 78-10-4 te Dermal	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requered s with limit values that requered etraethyl silicate g-term value: 44 mg/m³, 5 etraethyl silicate DNEL (Kurzzeit-akut) DNEL (Kurzzeit-akut)	3       No further relevant information available.         ersonal protection         No further data; see item 7.         uire monitoring at the workplace:         ppm         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         12.1 mg/kg bw/day (BEV)         25 mg/m³ Air (ARB)         25 mg/m³ Air (BEV)	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELS 78-10-4 te Dermal	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that requer traethyl silicate g-term value: 44 mg/m³, 5 etraethyl silicate DNEL (Kurzzeit-akut) DNEL (Langzeit-wiederhold)	3       No further relevant information available.         Prsonal protection         No further data; see item 7.         uire monitoring at the workplace:         ppm         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         12.1 mg/kg bw/day (BEV)         901         12.1 mg/kg bw/day (BEV)         91         92.5 mg/m³ Air (ARB)         92.5 mg/m³ Air (BEV)         93.5 mg/m³ Air (ARB)         94.1	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELs 78-10-4 te Dermal	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that request traethyl silicate g-term value: 44 mg/m³, 5 etraethyl silicate DNEL (Kurzzeit-akut) DNEL (Langzeit-wiederhold DNEL (Langzeit-wiederhold) DNEL (Langzeit-wiederhold)	3       No further relevant information available.         ersonal protection         No further data; see item 7.         uire monitoring at the workplace:         ppm         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         12.1 mg/kg bw/day (BEV)         25 mg/m³ Air (ARB)         25 mg/m³ Air (BEV)	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELS 78-10-4 te Dermal Inhalative	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that request traethyl silicate g-term value: 44 mg/m³, 5 etraethyl silicate DNEL (Kurzzeit-akut) DNEL (Langzeit-wiederhold DNEL (Langz	3       No further relevant information available.         ersonal protection         No further data; see item 7.         uire monitoring at the workplace:         ppm         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         olt)         12.1 mg/kg bw/day (BEV)         soft ang/kg bw/day (BEV)         soft ang/kg bw/day (BEV)         8.4 mg/kg bw/day (BEV)         8.5 mg/m³ Air (ARB)         25 mg/m³ Air (BEV)         oht)       85 mg/m³ Air (ARB)         25 mg/m³ Air (BEV)	
7.3 Specif SECTION 8.1 Contro Additional of technica Ingredient 78-10-4 te WEL Lon DNELS 78-10-4 te Dermal Inhalative 3648-18-8 Oral	ass: fic end use(s) 8: Exposure controls/pe ol parameters information about design al facilities: s with limit values that request traethyl silicate g-term value: 44 mg/m³, 5 etraethyl silicate DNEL (Kurzzeit-akut) DNEL (Langzeit-wiederhold DNEL (Langzeit-wiederhold) DNEL (Langzeit-wiederhold)	3       No further relevant information available.         ersonal protection         No further data; see item 7.         uire monitoring at the workplace:         ppm         12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         olt)       12.1 mg/kg bw/day (ARB)         8.4 mg/kg bw/day (BEV)         olt)       12.1 mg/kg bw/day (BEV)         85 mg/m³ Air (ARB)         25 mg/m³ Air (BEV)         85 mg/m³ Air (BEV)         olt)       0.0005 mg/kg bw/day (BEV)	



Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

Trade name: Duro Impregnator
------------------------------

	(Contd. of page 4) 0.0009 mg/m³ Air (BEV)				
· <u>PNECs</u>	ed ellipste				
78-10-4 tetraeth					
PINEC (wassing)	PNEC (wässrig) 4,000 mg/l (KA)				
	0.0192 mg/l (MW)				
	0.192 mg/l (SW)				
	10 mg/l (WAS)				
PNEC (fest)	0.05 mg/kg Trockengew (BO)				
	0.018-0.083 mg/kg Trockengew (MWS)				
	0.18-0.83 mg/kg Trockengew (SWS)				
3648-18-8 Dioct	•				
PNEC (wässrig)					
	0.0000018 mg/l (MW)				
	0.0000018 mg/l (SW)				
PNEC (fest)	0.005593 mg/kg Trockengew (BO)				
	0.02798 mg/kg Trockengew (MWS)				
A 1.1111	0.02798 mg/kg Trockengew (SWS)				
· Additional inform					
8.2 Exposure co					
Personal protect					
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. Wash hands before breaks and at the end of work.				
· Respiratory prote					
	In case of brief exposure or low pollution use respiratory filter device. In case of				
Dratastian of her	intensive or longer exposure use self-contained respiratory protective device.				
<ul> <li>Protection of har</li> </ul>	nds: Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.				
	Skin protection agent recommendation for preventive skin shelter without use of				
	protective gloves:				
	STOKODERM (http://www.stoko.com)				
	Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:				
	STOKO EMULSION (http://www.stoko.com)				
	Skin protection recommendation for skin cleaning after product handling:				
	FRAPANTOL (http://www.stoko.com)				
	Skin protection agent recommendation for skin aftercare: STOKO VITAN (http://www.stoko.com)				
	The protection gloves to be used have to comply with the specifications of the				
	directive 89/686/EC and the directive derived decree EN374, respectively, e.g.				
	the above listed protection glove type. The mentioned permeation times' data				
	were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL				
	GmbH in compliance with EN374.				
	This recommendation refers exclusively to the material safety data sheet				
	referenced product delivered by Akemi and the indicated field of application. In				
	case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved				
	protection gloves must be contacted for detailed information (e.g., KCL GmbH,				
	Germany, 36124 Eichenzell, internet: http://www.kcl.de).				
	(Contd. on page 6) 				



· Flammability (solid, gas):

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021 Version number 8 Revision: 10.08.2021 Trade name: Duro Impregnator (Contd. of page 5) The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves Fluorocarbon rubber (Viton) Nitrile rubber, NBR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material Value for the permeation: Level  $\leq$  6; 480 min The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. · For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton) Vitoject (KCL, Art No. 890) Nitrile rubber, NBR Camatril (KCL, Art\_No. 730, 731, 732, 733) As protection from splashes gloves made of the following materials are suitable: Fluorocarbon rubber (Viton) Vitoject (KCL, Art\_No. 890) Nitrile rubber, NBR Camatril (KCL, 730, 731, 732, 733) Not suitable are gloves made of the following materials: Natural rubber, NR Rubber gloves Leather gloves Strong material gloves Neoprene gloves · Eye protection: Tightly sealed goggles Body protection: Protective work clothing **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties General Information · Appearance: Fluid Form: Colour: Colourless Odour: Specific type · Odour threshold: Not determined. Not applicable · pH-value: · Change in condition Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 173 °C 43 °C · Flash point:

Not applicable.

AKEMI®

GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

**AKEMI**<sup>®</sup>

Trade name: Duro Impregnator

	(Contd. of page 6)
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Explosion limits:</u> Lower: Upper:	Not determined. Not determined.
· Vapour pressure:	Not determined.
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	0.76 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· <u>Viscosity:</u> Dynamic: Kinematic:	Not determined. Not determined.
<u>Solvent content:</u> Organic solvents:	91.7 %
• 9.2 Other information	No further relevant information available.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity 10.2 Chemical stability	No further relevant information available.
Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
<u>10.3 Possibility of hazardous</u>	
reactions	Reacts with strong oxidising agents.
	Forms flammable gases/fumes.
10.4 Conditions to avoid	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition	
products:	Carbon monoxide and carbon dioxide

### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

· Acute toxi	ute toxicity Based on available data, the classification criteria are not met.				
· <u>LD/LC50</u> v	· LD/LC50 values relevant for classification:				
13475-82-	13475-82-6 2,2,4,6,6-pentamethylheptan				
Oral	LD50	>5,000 mg/kg (rat)			
Inhalative	LC50/8h	>5 ppm (rat)			
Hydrocar	Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics				
Oral	LD50	>5,000 mg/kg (rat)			
Inhalative	LC50/8h	>5 mg/l (rat)			
78-10-4 te	78-10-4 tetraethyl silicate				
Oral	Oral LD50 >2,500 mg/kg (rat)				
		(Contd. on page 8)			

---- GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

**AKEMI**<sup>®</sup>

### Trade name: Duro Impregnator

ade name.	Durominp	regnator		
				(Contd. of page 7)
	NOAEL	10 mg/kg (ra	t)	
Inhalative	LC50/4 h	10-16.8 mg/l	(rat)	
3648-18-8 Dioctyltin dilaurate				
Oral	LD50	6,450 mg/kg	(rat)	
Dermal	LD50	>2,000 mg/kg	g (rat)	
· Primary irr	ritant effec	t:		
· Skin corro			Based on available data, the classification criteria are not met.	
Serious ey	/e damage	/irritation	Based on available data, the classification criteria are not met.	
		ensitisation	Based on available data, the classification criteria are not met.	
		cal information		
			enicity and toxicity for reproduction)	
	mutagenic	city	Based on available data, the classification criteria are not met.	
· <u>Carcinogenicity</u>			Based on available data, the classification criteria are not met.	
<u>Reproductive toxicity</u>			Based on available data, the classification criteria are not met.	
	-single exposure		Based on available data, the classification criteria are not met.	
	F-repeated exposure		Based on available data, the classification criteria are not met.	
· Aspiration	nazard		May be fatal if swallowed and enters airways.	
SECTION 12: Ecological information				
· Aquatic toxicity:				
13475-82-6 2,2,4,6,6-pentamethylheptan				
IC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)			
EC50/48h	h >1,000 mg/l (daphnia magna)			
LC50/96h	>1,000	mg/l (Oncorh	ynchus mykiss)	
Hydrocar	bons, C10	)-C12, Isoalka	nes, <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 1,000 mg/l (Pseudokirchneriella subcapitata)

NOELR/21d <1 mg/l (daphnia magna)

78-10-4 tetraethyl silicate				
EC50	>100 mg/l (Klärschlamm: Atmungs-/Vermehrungshemmung)			
EC50/48h	>75 mg/l (daphnia magna)			
EC50/72h	>100 mg/l (Pseudokirchneriella subcapitata)			
LC50/96h	>245 mg/l (Danio rerio.)			
12.2 Persistence and				
degradability		No further relevant information available.		
12.3 Bioaccumulative potential		No further relevant information available.		
12.4 Mobility in soil		No further relevant information available.		
Ecotoxical effects:				
· Remark:		Toxic for fish		
Additional ecological information:				

· Additional ecological information:

· General notes: Toxic for aquatic organisms

Do not allow product to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

· 12.5 Results of PBT and vPvB assessment · PBT: Not applicable.

· vPvB: Not applicable.

(Contd. on page 9) GB

Printing date 10.08.2021	Version number 8	Revision: 10.08.2021				
Trade name: Duro Impregnator						
<sup>•</sup> <u>12.6 Other adverse effects</u>	No further relevant information available.	(Contd. of page 8)				
SECTION 13: Disposal consider	SECTION 13: Disposal considerations					
<ul> <li><u>13.1 Waste treatment methods</u></li> <li><u>Recommendation</u></li> </ul>	Must not be disposed together with household garbag reach sewage system.	ge. Do not allow product to				
<ul> <li>Uncleaned packaging:</li> <li>Recommendation:</li> </ul>	Empty contaminated packagings thoroughly. The thorough and proper cleaning.	ey may be recycled after				
· Recommended cleansing agents:	Alcohol					
SECTION 14: Transport information	SECTION 14: Transport information					
· <u>14.1 UN-Number</u> · ADR, IMDG, IATA	UN3295					
• <b>14.2 UN proper shipping name</b> • <u>ADR</u>	3295 HYDROCARBONS, LIQU C10-C12, Isoalkanes, <2% pentamethylheptan), E HAZARDOUS	aromatics, 2,2,4,6,6-				
· <u>IMDG</u> · <u>IATA</u>	HYDROCARBONS, LIQUID, N. C12, Isoalkanes, <2% a pentamethylheptan), MARINE F HYDROCARBONS, LIQUID, N. C12, Isoalkanes, <2% a pentamethylheptan)	oromatics, 2,2,4,6,6- POLLUTANT O.S. (Hydrocarbons, C10-				
• <u>14.3 Transport hazard class(es)</u> • <u>ADR</u>						
· <u>Class</u> · <u>Label</u> · <u>IMDG</u>	3 (F1) Flammable liquids. 3					
· <u>Class</u> · <u>Label</u> · <u>IATA</u>	3 Flammable liquids. 3					
· <u>Class</u> · <u>Label</u>	3 Flammable liquids. 3					
· <u>14.4 Packing group</u> · <u>ADR, IMDG, IATA</u>	III					
		(Contd. on page 10)				

GB

**AKEMI**<sup>®</sup>

Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

**AKEMI**<sup>®</sup>

	(Contd. of page S
<ul> <li>• 14.5 Environmental hazards:</li> <li>• Marine pollutant:</li> <li>• Special marking (ADR):</li> </ul>	Product contains environmentally hazardous substances: Yes Symbol (fish and tree) Symbol (fish and tree)
<ul> <li>• 14.6 Special precautions for user</li> <li>• Hazard identification number (Kemler code):</li> <li>• EMS Number:</li> <li>• Stowage Category</li> </ul>	Warning: Flammable liquids. 30 F-E,S-D A
• 14.7 Transport in bulk according to Annex II of M and the IBC Code	<u>flarpol</u> Not applicable.
<ul> <li><u>Transport/Additional information:</u></li> <li><u>ADR</u></li> <li><u>Excepted quantities (EQ)</u></li> </ul>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	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. (HYDROCARBONS, C10-C12, ISOALKANES, <2% AROMATICS, 2,2,4,6,6-PENTAMETHYLHEPTAN), 3, III,

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

	· · · · ·
· <u>Directive 2012/18/EU</u> · Named dangerous substances -	
ANNEX I	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	200 t
requirements · Qualifying quantity (tonnes) for the	200 t
application of upper-tier	
requirements	500 t
· National regulations:	
¥	
· Information about limitation of use:	Employment restrictions concerning pregnant and lactating women must be
	observed.
	Employment restrictions concerning juveniles must be observed.
· Waterhazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
· Substances of very high concern (S	SVHC) according to REACH, Article 57
3648-18-8 Dioctyltin dilaurate	
· VOC EU	696.7 g/l
15.2 Chemical safety	-
assessment:	A Chemical Safety Assessment has not been carried out.
	(Contd. on page 11) GB
	(JB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

### Trade name: Duro Impregnator

(Contd. of page 10)

## **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	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H360D May damage the unborn child.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> <li>H413 May cause long lasting harmful effects to aquatic life.</li> <li>refer to Technical Data Sheet (TDS)</li> </ul>
Department issuing SDS: Contact: Abbreviations and acronyms:	Laboratory Dieter Zimmermann RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international 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 Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Repr. 1A: Reproductive toxicity – Category 1A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
* Data compared to the previous version altered.	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4 Adaptation in accordance with REACH directive 1907/2006/EC

