




Safety Data Sheet according to Regulation (EC) NO 453/2010

Trade Name: FL 22 CL	Flux Gel F-SW 32 DIN EN 29454 / 1.1.3.
<p>1.) <u>IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</u></p> <p>1.1.) Product identifier Product form: Trade name: Product code:</p> <p>1.2.) Relevant identified uses of the substance or mixture and uses advised against</p> <p>1.2.1.) Relevant identified uses Main use category: Use of the substance/mixture:</p> <p>1.2.2.) Uses advised against</p> <p>1.3.) Details of the supplier of the safety data sheet supplier: address:</p> <p>1.4.) Emergency telephone number</p>	<p>Mixture FL 22 CL FL22CL</p> <p>Reserved for industrial and professional use. Rework gel flux No additional information available.</p> <p>EDSYN GMBH EUROPA Finkenweg 2 Tel.: 09342 - 6413 D 97892 Kreuzwertheim Fax: 09342 - 6417</p> <p>next hospital</p>
<p>2.) <u>HAZARDS IDENTIFICATION</u></p> <p>2.1.) Classification of the substance or mixture Classification according to Regulation (EC) no 1272/2008 (CLP) Adverse physicochemical, human health and environmental effects Other information NFPA code:</p>	<p>Skin Irrit. 2 H315 Eye Irrit. 2 H319 Full text of H-phrases: see section 16 No additional information available</p> <p>1-1-0</p> <div style="text-align: center;"> </div>



<p>2.2.) Label elements</p> <p>Labelling according to Regulation (EC) no 1272/2008 (CLP)</p> <p>Hazard pictograms (CLP):</p> <p>Signal word (CLP):</p> <p>Hazard statements (CLP):</p> <p>Precautionary statements (CLP):</p> <p>2.3.) Other hazards</p> <p>Other hazards not contributing to the classification:</p>	<div style="text-align: center;">  <p>GHS07</p> </div> <p>Warning</p> <p>H315 Causes skin irritation H319 Causes serious eye irritation</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>This product may become hazardous in use and the information in this data sheet reflects the hazards associated with solder operations. During soldering operations: Work under local exhaust/ventilation.</p>																				
<p>3.) COMPOSITION/INFORMATION ON INGREDIENTS</p> <p>3.1. Substances</p> <p>3.2.) Mixture</p>	<p>Not applicable</p> <table border="1" data-bbox="313 1436 1409 1806"> <thead> <tr> <th>Name</th> <th>Product identifier</th> <th>%</th> <th>Classification according to Directive 67/548/EEC</th> </tr> </thead> <tbody> <tr> <td>hydrogenated rosin</td> <td>(CAS N°) 65997-06-0 (EC N°) 266-041-3 (REACH-no) Not established yet</td> <td>30-35</td> <td>Not classified</td> </tr> <tr> <td>2-(2-butoxyethoxy)ethanol</td> <td>(CAS N°) 112-34-5 (EC N°) 203-961-6 (EC index no) 603-096-00-8 (REACH-no) 01-2119475104-44</td> <td>20-30</td> <td>Xi; R36</td> </tr> <tr> <td>terpineol, mixture of isomers</td> <td>(CAS N°) 8000-41-7 (EC N°) 232-268-1 (REACH no) Not established yet</td> <td>10-20</td> <td>Xi; R36/38</td> </tr> <tr> <td>malonic acid</td> <td>(CAS N°) 141-82-2 (EC N°) 205-503-0 (REACH no) Not established yet</td> <td>5-10</td> <td>Xn; R22 Xi; R36/37/38</td> </tr> </tbody> </table>	Name	Product identifier	%	Classification according to Directive 67/548/EEC	hydrogenated rosin	(CAS N°) 65997-06-0 (EC N°) 266-041-3 (REACH-no) Not established yet	30-35	Not classified	2-(2-butoxyethoxy)ethanol	(CAS N°) 112-34-5 (EC N°) 203-961-6 (EC index no) 603-096-00-8 (REACH-no) 01-2119475104-44	20-30	Xi; R36	terpineol, mixture of isomers	(CAS N°) 8000-41-7 (EC N°) 232-268-1 (REACH no) Not established yet	10-20	Xi; R36/38	malonic acid	(CAS N°) 141-82-2 (EC N°) 205-503-0 (REACH no) Not established yet	5-10	Xn; R22 Xi; R36/37/38
Name	Product identifier	%	Classification according to Directive 67/548/EEC																		
hydrogenated rosin	(CAS N°) 65997-06-0 (EC N°) 266-041-3 (REACH-no) Not established yet	30-35	Not classified																		
2-(2-butoxyethoxy)ethanol	(CAS N°) 112-34-5 (EC N°) 203-961-6 (EC index no) 603-096-00-8 (REACH-no) 01-2119475104-44	20-30	Xi; R36																		
terpineol, mixture of isomers	(CAS N°) 8000-41-7 (EC N°) 232-268-1 (REACH no) Not established yet	10-20	Xi; R36/38																		
malonic acid	(CAS N°) 141-82-2 (EC N°) 205-503-0 (REACH no) Not established yet	5-10	Xn; R22 Xi; R36/37/38																		



Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
hydrogenated rosin	(CAS N°) 65997-06-0 (EC N°) 266-041-3 (REACH-no) Not established yet	30-35	Not classified
2-(2-butoxyethoxy)ethanol	(CAS N°) 112-34-5 (EC N°) 203-961-6 (EC index no) 603-096-00-8 (REACH-no) 01-2119475104-44	20-30	Eye Irrit. 2, H319
terpineol, mixture of isomers	(CAS N°) 8000-41-7 (EC N°) 232-268-1 (REACH no) Not established yet	10-20	Skin Irrit. 2, H315 Eye Irrit. 2, H319
malonic acid	(CAS N°) 141-82-2 (EC N°) 205-503-0 (REACH no) Not established yet	5-10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of R-, H- and EUH-phrases: see section 16

4.1. **FIRST AID MEASURES**

4.1.) **Description of first aid measures**

First aid measures general:

Never give anything by mouth to an unconscious person. Depending on the victim`s condition: doctor/hospital.

First aid measures after inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First aid measures after skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

First aid measures after eye contact:

Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.

First aid measures after ingestion:

Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell. Doctor: gastric lavage.

4.2.) **Most important symptoms and effects, both acute and delayed**

Symptoms/injuries after inhalation:

Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations.

Symptoms/injuries after skin contact:

Slight irritation.

Symptoms/injuries after eye contact:

Irritation of the eye tissue. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Redness of the eye tissue.

Symptoms/injuries after ingestion:

Gastrointestinal complaints.




4.3.) **Indication of any immediate medical attention and special treatment needed**

No additional information available.



<p>5.) <u>FIREFIGHTING MEASURES</u></p> <p>5.1.) Extinguishing media Suitable extinguishing media.</p> <p>5.2.) Special hazards arising from the substance or mixture Fire hazard: Reactivity:</p> <p>5.3.) Advice for firefighters</p>	<p>Foam, Dry powder, Water spray, Carbon dioxide.</p> <p>No fire hazard.</p> <p>On burning: release of (carbon monoxide – carbon dioxide).</p> <p>No additional information available.</p>
<p>6.) <u>ACCIDENTAL RELEASE MEASURES</u></p> <p>6.1.) Personal precautions, protective equipment and emergency procedures General measures.</p> <p>6.1.1.) For non-emergency personnel Protective equipment:</p> <p>6.1.2.) For emergency responders Protective equipment:</p> <p>6.2.) Environmental precautions</p> <p>6.3.) Methods and material for containment and cleaning up Methods for cleaning up:</p> <p>6.4.) Reference to other sections</p>	<p>ACCIDENTAL RELEASE OF THE COMPONENTS: Prevent spreading in sewers.</p> <p>Gloves. Protective goggles, protective clothing. Wash hands immediately after handling the product.</p> <p>Refer to section 6.1.1.</p> <p>Do not discharge into drains or the environment.</p> <p>Clean contaminated surfaces with alcohol or a soap solution. Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone.</p> <p>No additional information available.</p>
<p>7.) <u>HANDLING AND STORAGE</u></p> <p>7.1.) Precautions for safe handling Additional hazards when processed: Precautions for safe handling: Hygiene measures:</p>	<p>During soldering operations: Work under local exhaust/ventilation..</p> <p>Work under local exhaust/ventilation.</p> <p>Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.</p>



<p>7.2.) Conditions for safe storage, including any incompatibilities</p> <p>Maximum storage period: Storage temperature: Storage area:</p> <p>7.3.) Specific end use(s)</p>	<p>6 months 5 – 35 °C Meet the legal requirements. Store in a dry area. Keep out of direct sunlight.</p> <p>REACH Disclaimer: This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).</p>																																																																					
<p>8.) EXPOSURE CONTROLS/PERSONAL PROTECTION</p> <p>8.1) Control parameters</p> <p><u>2-(2-butoxyethoxy)ethanol (112-34-5)</u></p> <table border="1" data-bbox="311 961 1409 1612"> <tr><td>EU</td><td>IOELV TWA (mg/m³)</td><td>67,5 mg/m³</td></tr> <tr><td>EU</td><td>IOELV TWA (ppm)</td><td>10 ppm</td></tr> <tr><td>EU</td><td>IOLV STEL (mg/m³)</td><td>101,2 mg/m³</td></tr> <tr><td>EU</td><td>IOLV STEL (ppm)</td><td>15 ppm</td></tr> <tr><td>Belgium</td><td>Limit value (mg/m³)</td><td>67,5 mg/m³</td></tr> <tr><td>Belgium</td><td>Limit value (ppm)</td><td>10 ppm</td></tr> <tr><td>Belgium</td><td>Short time value (mg/m³)</td><td>mg/m³</td></tr> <tr><td>Belgium</td><td>Short time value (ppm)</td><td>15 ppm</td></tr> <tr><td>France</td><td>VLE (mg/m³)</td><td>101,2 mg/m³</td></tr> <tr><td>France</td><td>VLE (ppm)</td><td>15 ppm</td></tr> <tr><td>France</td><td>VME (mg/m³)</td><td>67,5 mg/m³</td></tr> <tr><td>France</td><td>VME (ppm)</td><td>10 ppm</td></tr> <tr><td>Germany</td><td>TRGS 900 Occupational exposure limit value (mg/m³)</td><td>100 mg/m³</td></tr> <tr><td>Italy-Portugal-USA ACGIH</td><td>ACGIH TWA (ppm)</td><td>10 ppm</td></tr> <tr><td>Italy-Portugal-USA ACGIH</td><td>ACGIH STEL (ppm)</td><td>10 ppm</td></tr> <tr><td>The Netherlands</td><td>MAC TGG 8H (mg/m³)</td><td>50 mg/m³</td></tr> <tr><td>The Netherlands</td><td>MAC TGG 8H (ppm)</td><td>9 ppm</td></tr> <tr><td>The Netherlands</td><td>MAC TGG 15MIN (mg/m³)</td><td>100 mg/m³</td></tr> <tr><td>The Netherlands</td><td>MAC TGG 15MIN (ppm)</td><td>18 ppm</td></tr> <tr><td>United Kingdom</td><td>WEL TWA (mg/m³)</td><td>67,5 mg/m³</td></tr> <tr><td>United Kingdom</td><td>WEL TWA (ppm)</td><td>10 ppm</td></tr> <tr><td>United Kingdom</td><td>WEL STEL (mg/m³)</td><td>101,2 mg/m³</td></tr> <tr><td>United Kingdom</td><td>WEL STEL (ppm)</td><td>15 ppm</td></tr> </table> <p>8.2.) Exposure controls</p> <p>Personal protective equipment:</p> <p>Gloves, protective goggles. Protective clothing.</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>		EU	IOELV TWA (mg/m ³)	67,5 mg/m ³	EU	IOELV TWA (ppm)	10 ppm	EU	IOLV STEL (mg/m ³)	101,2 mg/m ³	EU	IOLV STEL (ppm)	15 ppm	Belgium	Limit value (mg/m ³)	67,5 mg/m ³	Belgium	Limit value (ppm)	10 ppm	Belgium	Short time value (mg/m ³)	mg/m ³	Belgium	Short time value (ppm)	15 ppm	France	VLE (mg/m ³)	101,2 mg/m ³	France	VLE (ppm)	15 ppm	France	VME (mg/m ³)	67,5 mg/m ³	France	VME (ppm)	10 ppm	Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	100 mg/m ³	Italy-Portugal-USA ACGIH	ACGIH TWA (ppm)	10 ppm	Italy-Portugal-USA ACGIH	ACGIH STEL (ppm)	10 ppm	The Netherlands	MAC TGG 8H (mg/m ³)	50 mg/m ³	The Netherlands	MAC TGG 8H (ppm)	9 ppm	The Netherlands	MAC TGG 15MIN (mg/m ³)	100 mg/m ³	The Netherlands	MAC TGG 15MIN (ppm)	18 ppm	United Kingdom	WEL TWA (mg/m ³)	67,5 mg/m ³	United Kingdom	WEL TWA (ppm)	10 ppm	United Kingdom	WEL STEL (mg/m ³)	101,2 mg/m ³	United Kingdom	WEL STEL (ppm)	15 ppm
EU	IOELV TWA (mg/m ³)	67,5 mg/m ³																																																																				
EU	IOELV TWA (ppm)	10 ppm																																																																				
EU	IOLV STEL (mg/m ³)	101,2 mg/m ³																																																																				
EU	IOLV STEL (ppm)	15 ppm																																																																				
Belgium	Limit value (mg/m ³)	67,5 mg/m ³																																																																				
Belgium	Limit value (ppm)	10 ppm																																																																				
Belgium	Short time value (mg/m ³)	mg/m ³																																																																				
Belgium	Short time value (ppm)	15 ppm																																																																				
France	VLE (mg/m ³)	101,2 mg/m ³																																																																				
France	VLE (ppm)	15 ppm																																																																				
France	VME (mg/m ³)	67,5 mg/m ³																																																																				
France	VME (ppm)	10 ppm																																																																				
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	100 mg/m ³																																																																				
Italy-Portugal-USA ACGIH	ACGIH TWA (ppm)	10 ppm																																																																				
Italy-Portugal-USA ACGIH	ACGIH STEL (ppm)	10 ppm																																																																				
The Netherlands	MAC TGG 8H (mg/m ³)	50 mg/m ³																																																																				
The Netherlands	MAC TGG 8H (ppm)	9 ppm																																																																				
The Netherlands	MAC TGG 15MIN (mg/m ³)	100 mg/m ³																																																																				
The Netherlands	MAC TGG 15MIN (ppm)	18 ppm																																																																				
United Kingdom	WEL TWA (mg/m ³)	67,5 mg/m ³																																																																				
United Kingdom	WEL TWA (ppm)	10 ppm																																																																				
United Kingdom	WEL STEL (mg/m ³)	101,2 mg/m ³																																																																				
United Kingdom	WEL STEL (ppm)	15 ppm																																																																				



04.11.2019

<p>Hand protection:</p> <p>Eye protection:</p> <p>Respiratory protection:</p>	<p>The selected protective gloves must meet the specifications of EU Directive 89/686/EEC and EN 374, derived therefrom, nitrile rubber gloves. Recommended thickness: >0,11mm.</p> <p>Safety glasses.</p> <p>Local exhaust is needed at source of vapours. During soldering operations.</p>
<p>9.) <u>PHYSICAL AND CHEMICAL PROPERTIES</u></p> <p>9.1.) Information on basic physical and chemical properties</p> <p>Physical state: Appearance: Colour: Odour: Odour threshold:</p> <p>pH: Melting point: Freezing point: Boiling point: Flash point: Relative evaporation rate (butylacetate=1): Flammability (solid, gas): Explosive limits: Vapour pressure: Relative vapour density at 20 °C: Relative density: Solubility:</p> <p>Log Pow: Log Kow: Self ignition temperature: Decomposition temperature: Viscosity, kinematic: Viscosity, dynamic: Explosive properties: Oxidising properties:</p> <p>9.2.) Other information</p>	<p>Gel Viscous. Glossy. Clear, Colourless or light yellow Mild odour No data available</p> <p>5 (25% Solution). No data available No data available No data available > 140 °C</p> <p>No data available No data available No data available No data available No data available No data available No data available 1,01g/ml +/-0,01 Water: Insoluble Ethanol: Partially soluble</p> <p>0,56 (Experimental value) No data available No data available No data available No data available No data available No data available No data available No data available</p> <p>No additional information available</p>
<p>10.) <u>STABILITY AND REACTIVITY</u></p> <p>10.1.) Reactivity</p> <p>10.2.) Chemical stability</p> <p>10.3.) Possibility of hazardous reactions</p> <p>10.4.) Conditions to avoid</p>	<p>On burning: release of (carbon monoxide – carbon dioxide).</p> <p>Stable under normal conditions.</p> <p>No additional information available.</p> <p>All heat source, including direct sunlight. Temperatures below 5 °C</p>



<p>10.5.) Incompatible materials</p>	<p>Keep away from reducing agents (strong) acids/(strong) bases. Keep away from sparks/open flames. Aluminium metals.</p>																				
<p>10.6.) Hazardous decomposition products</p>	<p>No additional information available.</p>																				
<p>11.) <u>TOXICOLOGICAL INFORMATION</u></p> <p>11.1) Information on toxicological effects</p> <p>Acute toxicity:</p> <p><u>FL 22 CL CLEAR BGA Gel Flux</u></p> <table border="1" data-bbox="315 785 1377 842"> <tr> <td>LD50 oral rat</td> <td>> 4300 mg/kg (rat)</td> </tr> <tr> <td>LD50 dermal rabbit</td> <td>> 2500 mg/kg (rabbit)</td> </tr> </table> <p><u>terpineol, mixture of isomers (8000-41-7)</u></p> <table border="1" data-bbox="315 942 1377 972"> <tr> <td>LD50 oral rat</td> <td>> 4300 mg/kg (rat)</td> </tr> </table> <p><u>2-(2-butoxyethoxy)ethanol (112-34-5)</u></p> <table border="1" data-bbox="315 1075 1377 1184"> <tr> <td>LD50 oral rat</td> <td>5660 mg/kg (rat)</td> </tr> <tr> <td>LD50 dermal rabbit</td> <td>2700 mg/kg (rabbit)</td> </tr> <tr> <td>ATE (oral)</td> <td>5660,000 mg/kg bodyweight</td> </tr> <tr> <td>ATE (dermal)</td> <td>2700,000 mg/kg bodyweight</td> </tr> </table> <p><u>malonic acid (141-82-2)</u></p> <table border="1" data-bbox="315 1287 1377 1371"> <tr> <td>LD50 oral rat</td> <td>1310 mg/kg (rat)</td> </tr> <tr> <td>LC50 Inhalation rat (mg/l)</td> <td>> 2,2 mg/l/4 h (rat)</td> </tr> <tr> <td>ATE (oral)</td> <td>1310,000 mg/kg bodyweight</td> </tr> </table> <p>Skin corrosion/irritation</p> <p>Serious eye damage/irritation</p> <p>Respiratory or skin sensitisation</p> <p>Germ cell mutagenicity</p> <p>Carcinogenicity</p> <p>Reproductive toxicity</p> <p>Specific target organ toxicity (single exposure)</p> <p>Specific target organ toxicity (repeated exposure)</p> <p>Aspiration hazard:</p>	LD50 oral rat	> 4300 mg/kg (rat)	LD50 dermal rabbit	> 2500 mg/kg (rabbit)	LD50 oral rat	> 4300 mg/kg (rat)	LD50 oral rat	5660 mg/kg (rat)	LD50 dermal rabbit	2700 mg/kg (rabbit)	ATE (oral)	5660,000 mg/kg bodyweight	ATE (dermal)	2700,000 mg/kg bodyweight	LD50 oral rat	1310 mg/kg (rat)	LC50 Inhalation rat (mg/l)	> 2,2 mg/l/4 h (rat)	ATE (oral)	1310,000 mg/kg bodyweight	<p>Not classified</p> <p>Not classified</p> <p>Causes skin irritation. pH: 5 (25% Solution).</p> <p>Causes serious eye irritation. pH: 5 (25% Solution).</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p>
LD50 oral rat	> 4300 mg/kg (rat)																				
LD50 dermal rabbit	> 2500 mg/kg (rabbit)																				
LD50 oral rat	> 4300 mg/kg (rat)																				
LD50 oral rat	5660 mg/kg (rat)																				
LD50 dermal rabbit	2700 mg/kg (rabbit)																				
ATE (oral)	5660,000 mg/kg bodyweight																				
ATE (dermal)	2700,000 mg/kg bodyweight																				
LD50 oral rat	1310 mg/kg (rat)																				
LC50 Inhalation rat (mg/l)	> 2,2 mg/l/4 h (rat)																				
ATE (oral)	1310,000 mg/kg bodyweight																				



12.) Ecological information	
12.1.) Toxicity	
Ecology – general:	Classification concerning the environment: not applicable.
Ecology – air:	Not dangerous for the ozone (Council Regulation (EC) no 1005/2009). TA-Air class 5.2.1.
Ecology – water:	Mild water pollutant (surface water). Ground water pollutant. Not harmful to fishes (LC50(96 h) >1000 mg/l). Slightly harmful to invertebrates (Daphnia) (EC50>100 mg/l). Practically non-tox to algae (EC50>100 mg/l). Slightly harmful to bacteria.
terpineol, mixture of isomers (8000-41-7)	
LC50 fishes 1	10 – 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
2-(2-butoxyethoxy)ethanol (112-34-5)	
LC50 fishes 1	1300 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	10 – 100 mg/l (96 h)
EC50 Daphnia 1	2850 mg/l (24 h; Daphnia magna; GLP)
EC50 other aquatic organisms 1	53 mg/l (192 h; Algae; Growth)
LC50 fishes 2	1805 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 2	>100 mg/l (48 h; Daphnia magna)
12.2.) Persistence and degradability	
FL 22 CL CLEAR BGA Gel Flux	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the air.
Chemical oxygen demand (COD)	2,08 g O ² /g substance
terpineol, mixture of isomers (8000-41-7)	
Persistence and degradability	Readily biodegradable in the soil. Photodegradation in the air.
ThOD	2,90 g O ² /g substance
2-(2-butoxyethoxy)ethanol (112-34-5)	
Persistence and degradability	Readily biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0,25 g O ² /g substance
Chemical oxygen demand (COD)	2,08 g O ² /g substance
ThOD	2,173 g O ² /g substance
BOD (% des ThOD)	0,11 % ThOD
malonic acid (141-82-2)	
Persistence and degradability	Readily biodegradable in water
Biochemical oxygen demand (BOD)	0,36 g O ² /g substance (25 °C)
ThOD	0,6149 g O ² /g substance
BOD (% des ThOD)	(20 day(s)) 0,86



04.11.2019

12.3.) Bioaccumulative potential

FL 22 CL CLEAR BGA Gel Flux

Log Pow	0,56 (experimental value)
---------	---------------------------

terpineol, mixture of isomers (8000-41-7)

Log Pow	2,57 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4)

2-(2-butoxyethoxy)ethanol (112-34-5)

BCF fish 1	0,46 (QSAR)
Log Pow	0,56 (experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4)

malonic acid (141-82-2)

Log Pow	-0,9 to -0,18
Bioaccumulative potential	Bioaccumulation: not applicable.

12.4.) Mobility in soil

2-(2-butoxyethoxy)ethanol (112-34-5)

Surface tension	0,034 N/m (25 °C)
-----------------	-------------------

12.5.) Results of PBT and vPvB assessment | No additional information available

12.6.) Other adverse effects | No additional information available

13.) Disposal considerations

13.1.) Waste treatment methods

Regional legislation (waste):

Disposal must be done according to official regulations.

Waste disposal recommendations:

Disposal in a safe manner in accordance with local/national regulations. In authorized incinerator equipped with flue gas scrubber with energy recovery. Do not discharge into the sewer. Do not discharge into surface water.

Additional information:

Hazardous waste according to Directive 2008/98/EC.

Ecology waste materials:

Remove to an authorized incinerator. Do not discharge into the sewer. Do not discharge into surface water.



04.11.2019

<p>14.) <u>Transport information</u></p> <p>Additional rules to be obtained at:</p>	<p>No dangerous good in sense of transport regulations.</p> <p>EDSYN GMBH EUROPA</p> <p>Remark: Above mentioned regulations are in force at the moment of publication of this (SDS) safety data sheet. With reference to possible modifications in transport regulations of dangerous goods, we advise you to verify its validity.</p>
<p>15.) <u>Regulatory information</u></p> <p>15.1.) Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>15.1.1.) EU regulations</p> <p>EURAL code:</p> <p>15.1.2.) National regulations</p> <p>Water hazard class (WGK):</p> <p>WGK remark:</p> <p>15.2.) Chemical safety assessment</p>	<p>Contains no REACH candidate substance</p> <p>14 06 03*, 15 01 10*</p> <p>1 – slightly hazardous to water</p> <p>Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVws) of 27. July 2005</p> <p>No additional information available</p>
<p>16.) <u>Other information</u></p> <p>Full text of R-, H- und EUH-phrases:</p> <p>Other information:</p> <p>Version:</p> <p>Revision date:</p>	<p>Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Skin Irrit. 2 Skin corrosion/irritation, Category 2 STOT SE 3 Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation</p> <p>H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation R22 Harmful if swallowed R36 Irritating to eyes R36/37/38 Irritating to eyes, respiratory system and skin R36/38 Irritating to eyes and skin Xi Irritant Xn Harmful</p> <p>Intrastat 3810 90 90</p> <p>1.0</p> <p>30.04.2014 / 27.01.2016 / 23.03.2016</p>

EDSYN GMBH EUROPA

Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

04.11.2019

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefor be construed as guaranteeing any specific property of the product.

DISCLAIMER

The information in this Safety Data Sheet (SDS) is believed to be correct as of the data issued. Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability or the accuracy of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the suitability of each such product for their particular purposes. The products discussed are sold without such warranty, either expressed or implied.

Copyrights reserved to EDSYN GMBH EUROPA