





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 company/undertaking and of the substance/mixture</u></p> <p>1.1) <u>Manufacturer supplier:</u> <u>Address:</u></p> <p>1.2) <u>Relevant identified uses of the substance or mixture and uses advised against</u></p> <p>Use of the substances/mixture Main use category: Use of the substance/mixture:</p> <p>Uses advised against:</p>	<p>EDSYN GMBH EUROPA Finkenweg 2 D 97892 Kreuzwertheim</p> <p>Tel.: 09342 - 6413 Fax: 09342 - 6417</p> <p>Reserved for industrial and professional use. Rework gel flux</p> <p>No additional information available.</p>
<p>2.) <u>Hazards identification</u></p> <p>2.1) <u>Classification of the substance or mixture</u></p> <p>Classification according to Regulation (EC) no 1272/2008 (CLP)</p> <p>Adverse physicochemical, human health and environmental effects</p> <p>Other information</p> <p>NFPA code</p> <p>2.2) <u>Label elements</u></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>Skin Irrit. 2 H315 Eye Irrit. 2 H319</p> <p>Full text of H-phrases: see section 16</p> <p>No additional information available</p> <p>1-1-0</p>   <p>GHS07</p> <p>Warning</p> <p>H315 – Causes skin irritation H319 – Causes serious eye irritation</p>



<p>Precautionary statements (CLP)</p> <p>2.3) Other hazards</p> <p>Other hazards not contributing to the classification</p>	<p>P280 – Wear protective gloves/protective clothing/eye protection/face protection</p> <p>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>P302+P352 – IF ON SKIN: Wash with plenty of soap and water.</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.) <u>Composition/information on ingredients</u></p> <p>3.1) Substances</p> <p>3.2) Mixture</p>	<p>Not applicable</p>		
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 jet	30-35	Not classified
2-(2-butoxy)ethanol	(CAS N°) 112-34-5 (EC N°) 203-961-6 (EC index no) 603-096-00-8 (REACH-no)	20-30	Xi; R36
terpineol, mixture of isomers	(CAS N°) 8000-41-7 (EC N°) 232-268-1 (REACH no) Not established jet	10-20	Xi; R36/38
malonic acid	(CAS N°) 141-82-2 (EC N°) 205-503-0 (REACH no) Not established jet	5-10	Xn; R22 Xi; R36/37/38
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<p>Full text of R-, H- and EUH-phrases: see section 16</p>			






<p>4.) <u>First aid measures</u></p> <p>4.1) Description of first aid measures</p> <p>general:</p> <p>after inhalation:</p> <p>after skin contact:</p> <p>after eye contact:</p> <p>after ingestion:</p> <p>4.2) Most important symptoms and effects, both acute and delayed</p> <p>Symptoms/injuries after inhalation:</p> <p>Symptoms/injuries after skin contact:</p> <p>Symptoms/injuries after eye contact:</p> <p>Symptoms/injuries after ingestion:</p> <p>4.3) Indication of any immediate medical attention and special treatment needed</p>	<p>Never give anything by mouth to an unconscious person. Depending on the victim's condition: doctor/hospital.</p> <p>Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.</p> <p>Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.</p> <p>Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.</p> <p>Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell. Doctor: gastric lavage.</p> <p>Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations.</p> <p>Slight irritation.</p> <p>Irritation of the eye tissue. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Redness of the eye tissue.</p> <p>Gastrointestinal complaints.</p> <p>No additional information available.</p>
<p>5.) <u>Firefighting measures</u></p> <p>5.1) Extinguishing media</p> <p>Suitable extinguishing media</p> <p>5.2) Special hazards arising from the substance or mixture</p> <p>Fire hazard</p> <p>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 (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</p>	



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<p>General measures</p> <p>6.1.1) For non-emergency personnel</p> <p>Protective equipment</p> <p>6.1.2) For emergency responders</p> <p>Protective equipment</p> <p>6.2) Environmental precautions</p> <p>6.3) Methods and material for containment and cleaning up</p> <p>Methods for cleaning up</p> <p>6.4) Reference to other section</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</p> <p>Additional hazards when processed</p> <p>Precautions for safe handling</p> <p>Hygiene measures</p> <p>7.2) Conditions for safe storage, including any incompatibilities</p> <p>Maximum storage period</p> <p>Storage temperature</p> <p>Storage area</p> <p>7.3) Specific end use(s)</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>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.) <u>Exposure controls/personal protection</u></p> <p>8.1) Control parameters</p>	<p><u>2-(2-butoxyethoxy)ethanol (112-34-5)</u></p> <table border="1"> <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> </table>	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
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<p>8.2) Exposure controls</p> <p>Personal protective equipment</p> <p>Hand protection</p> <p>Eye protection</p> <p>Respiratory protection</p>	<table border="1"> <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>Gloves, protective goggles, protective clothing.</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div> <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>	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
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<p>9.) <u>Physical and chemical properties</u></p> <p>9.1) Information on basic physical and chemical properties</p> <p>Physical state</p> <p>Appearance</p> <p>Colour</p> <p>Odour</p> <p>Odour threshold</p> <p>pH</p> <p>Melting point</p> <p>Freezing point</p> <p>Boiling point</p> <p>Flash point</p>	<p>Gel</p> <p>Viscous, glossy.</p> <p>Clear, Colourless or light yellow</p> <p>Mild odour</p> <p>No data available</p> <p>5 (25% Solution).</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>> 140 °C</p>																																																						



<p>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>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 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>10.5.) Incompatible materials</p> <p>10.6. Hazardous decomposition products</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>Keep away from reducing agents (strong) acids/ (strong) bases. Keep away from sparks/open flames. Aluminium metals.</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>Not classified</p> <p><u>FL 22 CL CLEAR BGA Gel Flux</u></p> <table border="1" data-bbox="730 1664 1528 1727"> <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>Malonic acid (141-82-2)</u></p> <table border="1" data-bbox="730 1805 1528 1895"> <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><u>terpineol, mixture of isomers (8000-41-7)</u></p> <table border="1" data-bbox="730 1977 1528 2009"> <tr> <td>LD50 oral rat</td> <td>> 4300 mg/kg (rat)</td> </tr> </table>	LD50 oral rat	> 4300 mg/kg (rat)	LD50 dermal rabbit	> 2500 mg/kg (rabbit)	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	LD50 oral rat	> 4300 mg/kg (rat)
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<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>	<p><u>2-(2-butoxyethoxy)ethanol (112-34-5)</u></p> <table border="1"> <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>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>	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						
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<p>12.) <u>Ecological information</u></p> <p>12.1) Toxicity</p> <p>Ecological – general</p> <p>Ecological - air</p> <p>Ecological – water</p>	<p>Classification concerning the environment: not applicable.</p> <p>Not dangerous for the ozone (Council Regulation (EC) no 1005/2009). TA-Air class 5.2.1.</p> <p>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..</p> <p><u>terpineol, mixture of isomers (8000-41-7)</u></p> <table border="1"> <tr> <td>LC50 fishes 1</td> <td>10 – 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)</td> </tr> </table> <p><u>2-(2-butoxyethoxy)ethanol (112-34-5)</u></p> <table border="1"> <tr> <td>LC50 fishes 1</td> <td>1300 mg/l (96 h; Lepomis macrochirus)</td> </tr> <tr> <td>LC50 other aquatic organisms 1</td> <td>10 – 100 mg/l (96 h)</td> </tr> <tr> <td>EC50 Daphnia 1</td> <td>2850 mg/l (24 h; Daphnia magna; GLP)</td> </tr> <tr> <td>EC50 other aquatic organisms 1</td> <td>53 mg/l (192 h; Algae; Growth)</td> </tr> <tr> <td>LC50 fishes 2</td> <td>1805 mg/l (48 h; Leuciscus idus)</td> </tr> <tr> <td>EC50 Daphnia 2</td> <td>>100 mg/l (48 h; Daphnia magna)</td> </tr> </table>	LC50 fishes 1	10 – 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	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)
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12.2) Persistence and degradability	<u>FL 22 CL CLEAR BGA Gel Flux</u>	
	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
	<u>malonic acid (141-82-2)</u>	
	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
	<u>terpineol, mixture of isomers (8000-41-7)</u>	
	Persistence and degradability	Readily biodegradable in the soil. Photodegradation in the air.
	ThOD	2,90 g O ² /g substance
	<u>2-(2-butoxyethoxy)ethanol (112-34-5)</u>	
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	
12.3) Bioaccumulative	<u>FL 22 CL CLEAR BGA Gel Flux</u>	
	Log Pow	0,56 (experimental value)
	<u>malonic acid (141-82-2)</u>	
	Log Pow	-0,9 bis -0,18
	Bioaccumulative potential	Bioaccumulation: not applicable.
	<u>terpineol, mixture of isomers (8000-41-7)</u>	
	Log Pow	2,57 (Estimated value)
	Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4)
	<u>2-(2-butoxyethoxy)ethanol (112-34-5)</u>	
	BCF fish 1	0,46 (QSAR)
	Log Pow	0,56 (experimental value)
	Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4)
12.4) Mobility in soil	<u>2-(2-butoxyethoxy)ethanol (112-34-5)</u>	
	Surface tension	0,034 N/m (25 °C)
12.5) Results of PBT and vPvB assessment	No additional information available	



<p>12.6.) Other adverse effects</p>	<p>No additional information available</p>
<p>13.) <u>Disposal considerations</u></p> <p>13.1.) Waste treatment methods</p> <p>Regional legislation (waste)</p> <p>Waste disposal recommendations</p> <p>Additional information</p> <p>Ecology waste materials</p>	<p>Disposal must be done according to official regulations.</p> <p>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.</p> <p>Hazardous waste according to Directive 2008/98/EC.</p> <p>Remove to an authorized incinerator. Do not discharge into the sewer. Do not discharge into surface water.</p>
<p>14.) <u>Transport information</u></p> <p>Additional rules to be obtained at:</p> <p>Remark:</p>	<p>No dangerous good in sense of transport regulations.</p> <p>EDSYN GMBH EUROPA</p> <p>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>Other information</p> <p>Full text of R-, H- und EUH-phrases</p>	<p>Intrastat 3810 90 90</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>



16.07.2014

	H302 H315 H319 H335 R22 R36 R36/37/38 R36/38 Xi Xn	Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful if swallowed Irritating to eyes Irritating to eyes, respiratory system and skin Irritating to eyes and skin Irritant Harmful
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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.

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