



06.02.2024

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

		FLUXI Flux dispenser with NO-CLEAN-flux, waterbased	Solid Content: 4,5 % Type 2.1.3.A DIN EN 29454
1.)	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1.)	Product identifier		
	Trade name:	FL33B	
1.2.)	Relevant identified uses of the substance or mixture and uses advised against	No further relevant information availa	ble.
	Application of the substance / the preparation:	Soldering flux	
1.3.)	Details of the supplier of the safety data sheet		
	Manufacturer / Supplier: Address:		09342 - 6413 09342 - 6417
	Informing department:	QS Tel.	09342 – 6413
1.4.)	Emergency telephone number	closed hospital	
2.)	HAZARDS IDENTIFICATION		
2.1.)	Classification of the substance or mixture		
	Classification according to Regulation (EC) No 1272/2008:	GHS07	
		Eye Irrit. 2 H319 Cause	es serious eye irritation.
	Classification according to Directive 67/548/EEC or Directive 1999/45/EC:	Void.	
2.2.)	Label elements		
	Labelling according to Regulation (EC) No 1272/2008:	The product is classified and labelled	according to the CLP regulation.
	Hazard pictograms:	GHS07	
	Signal word:	Warning.	





	Hazard statements:		H319	Causes serious eye irritation.	
	Precautionary statements:		P280	Wear protective gloves/protectiv protection/face protection.	e clothing/eye
			P303+P361+P353	IF ON SKIN (or hair): Remove/T all contaminated clothing. Rinse shower.	
			P305+P351+P338	IF IN EYES: Rinse cautiously with minutes. Remove contact lenses to do. Continue rinsing.	
			P337+P313	If eye irritation persists: Get med	ical advice/attention.
			P403+P235	Store in a well-ventilated place. I	Keep cool.
			P501	Dispose of contents/container in local/regional/national/internation	
2.3.)	Other hazards				
	Results of PBT and vPvE	assessment:			
	PBT: vPvB:		Not applicable. Not applicable.		
3.)	COMPOSITION/INFORMA	COMPOSITION/INFORMATION ON INGREDIENTS			
3.2.)	chemical characterization		Mixtures		
	Description:		Aqueous solution.		
	Dangerous components:				
	CAS: 110-15-6 EINECS: 203-740-4	Succinic acid		Xi R41 Eye Dam. 1, H318	≤ 2,5%
	CAS: 110-94-1 EINECS: 203-817-2	Glutaric acid		Xi R36 Eye Irrit. 2, H319	≤ 2,5%
	Additional information: For the wording of the listed risk phrases refer to section 16.				
4.)	FIRST AID MEASURES				
4.1.)	Description of first aid m	easures			
	General information:		Remove contamina	ted clothing.	
	After inhalation:		Supply fresh air; co	nsult doctor in case of symptoms.	
	After skin contact:		Wash with soap and	d water. If skin irritation continues	, consult a doctor.

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	After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Use eye protection. Remove contact lenses, if present and easy to do.
	After swallowing:	Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.
4.2.)	Most important symptoms and effects, both acute and delayed	No further relevant information available.
4.3.)	Indication of any immediate medical attention and special treatment needed	Symptomatic treatment.
5.)	FIREFIGHTING MEASURES	
5.1.)	Extinguishing media	
	Suitable extinguishing agents:	Product does not burn – take extinguishing measures according to fire conditions. Carbon dioxide (CO <sub>2</sub> ), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
	For safety reasons unsuitable extinguishing agents:	Water with a full water jet.
5.2.)	Special hazards arising from the substance or mixture	Carbon monoxide (CO) and Carbon dioxide (CO <sub>2</sub> ).
5.3.)	Advice for firefighters	
	Protective equipment:	Wear self-contained breathing apparatus.
	Additional information:	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
6.)	ACCIDENTAL RELEASE MEASURES	
6.1.)	Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/ spray. Avoid contact with skin and eyes.
6.2.)	Environmental precautions	Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil.
6.)	Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable containers. Dispose of the material collected according to regulations. Ensure adequate ventilation.
6.4.)	Reference to other sections	See Section 8 for information on personal protection equipment.



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7.)	HANDLING AND STORAGE		
7.1.)	Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Avoid contact wit eyes. Avoid prolonged or repeated skin contact. Wear persona protection equipment. Do not breathe vapour/spray.	
	Information about protection against explosions and fires:	The product is not flammable.	
7.2.)	Conditions for safe storage, including any incompatibilities		
	STORAGE Requirements to be met by storerooms and containers:	Observe all local and national regulations for storage of water polluting products.	
	Information about storage in one common storage facility:	Store away from foodstuffs.	
	Further information about storage conditions:	Keep container tightly sealed. Protect from heat and direct sunlight. Protect from frost. Minimum storage temperature: 3°C.	
7.3.)	Specific end use(s)	No further relevant information available.	
8.)	EXPOSURE CONTROLS/PERSONAL PROTECTION		
	Additional information about design of technical systems:	No further data; see item 7.	
8.1.)	Control parameters		
	Components with critical values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials wit critical values that have to be monitored at the workplace.	
	Additional information:	The lists that were valid during the compilation were used as basis.	
8.2.)	Exposure controls		
	Personal protective equipment:		
	General protective and hygienic measures:	Keep away from foodstuffs, beverages and food. Instantly remove any contaminated garments. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes. Avoid close or long term contact with the skin. Wash hands during breaks and at the end of the work. Use skin protection cream for preventive skin protection.	
	Breathing equipment::	Not necessary if room is well-ventilated. If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.	
	Protection of hands:	Protective gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.	

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		The glove material has to be impermeable and resistant to the product / the substance / the preparation.
		Check the permeability prior to each renewed use of the glove.
		To avoid skin problems reduce the wearing of gloves to the required minimum.
		Material of gloves
		Nitrile rubber - NBR Recommended thickness of the material ≥ 0,11 mm 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 Penetration time: ≥ 8 hours Protective gloves should be replaced at first signs of wear. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
	Eye protection:	Tightly sealed safety glasses.
	Body protection:	Light weight protective clothing. Body protection must be chosen depending on activity and possible exposure.
	Limitation and supervision of exposure into the environment	Do not allow to enter drainage system, surface or ground water.
9.)	PHYSICAL AND CHEMICAL PROPERTIES	
9.1.)	Information on basic physical and chemical properties	
	General information	
	Appearance:	liquid
	Form: Colour:	liquid colourless to yellowish
	Smell:	odourless
	Odour threshold:	not applicable
	pH-value:	not determined
	<u>Change in condition</u> Melting point/Melting range: Boiling point/Boiling range:	not determined ~ 100°C
	Flash point: Inflammability (solid, gaseous):	not applicable not applicable
	Ignition temperature:	not determined not determined
	Decomposition temperature: Self-inflammability:	not determined Product is not selfigniting.
	Danger of explosion:	Product is not explosive.
	Critical values for explosion, lower:	not applicable
	Critical values for explosion, upper:	not applicable

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	Oxidizing properties:	not classified as oxidising	
	Vapour pressure:	not determined	
	Density at 24 °C:	0,999 – 1,001 g/cm <sup>3</sup>	
	Relative density:	not determined	
	Vapour density (AIR = 1):	not determined	
	Evaporation rate:	not determined	
	Solubility in / Miscibility with water:	fully miscible	
Partition coefficient (n-octanol/water):		not determined	
	Viscosity dynamic:	not determined	
	Viscosity kinematic:	not determined	
9.2.)	Other information	No further relevant information available.	
10.)	STABILITY AND REACTIVITY		
10.1.)	Reactivity	No further relevant information available.	
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10.2.)	Chemical stability		
	Thermal decomposition / conditions to be	No decomposition if used according to specifications	
	avoided:	No decomposition if used according to specifications.	
10.3.)	Possibility of hazardous reactions	No dangerous reactions known.	
10.4.)	Conditions to avoid	No further relevant information available.	
10.5.)	Incompatible materials	Strong oxidizing agents.	
10.6.)	Hazardous decomposition products	Carbon monoxide (CO) and Carbon dioxide (CO <sub>2</sub> ).	
11.)	TOXICOLOGICAL INFORMATION		
11.1.)	Information on toxicological effects		
	Acute toxicity:		
	-		
	LD/LC50 values that are relevant for class	ification:	
	110-15-6 Succinic acid		
	Oral LD50	2260 mg/kg (rat)	
	Dermal LD50	1000 mg/kg (guinea pig)	
	110-94-1 Glutaric acid		
	Oral LD50	6000 mg/kg (mouse)	
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	Primary irritant effect		
	on the skin:	No irritant effect known.	
	on the eye:	Causes serious eye irritation.	
	Subacute to chronic toxicity:	no data / no sufficient data available.	
r		When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us	

information provided to us.



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	Sensitisation:	No sensitizing effect known.	
	Repeated dose toxicity:	According to information currently no known toxic effects.	
	CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):	According to present knowledge no CMR-effects known.	
12.)	ECOLOGICAL INFORMATION		
12.1.)	Toxicity		
	Aquatic toxicity:		
	110-15-6 Succinic acid		
	EC50/48 h	374,2 mg/l (water flea (daphnia magna))	
	110-94-1 Glutaric acid		
	EC10/16 h EC50/48 h	63 mg/l (pseudomonas putida) 88,4 mg/l (water flea (daphnia magna))	
	IC50/96 h	35 mg/l (algae (Desmodesmus subspicatus))	
12.2.)	Persistence and degradability	No further relevant information available.	
	Other information:	The product is easily biodegradable.	
12.3.)	Bioaccumulative potential	No further relevant information available.	
12.4.)	Mobility in soil	No further relevant information available.	
	Additional ecological information		
	Chemical Oxygen Demand (COD-value):	Not determined.	
	Biochemical Oxygen Demand (BOD5-value):	Not determined.	
	According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:	The product does not contain heavy metals.	
	General notes:		
	Water hazard class 1 (Self- assessment):	slightly hazardous for water.	
12.5.)	Results of PBT and vPvB assessment		
	PBT:	Not applicable.	
	vPvB:	Not applicable.	
12.6.)	Other adverse effects	No further relevant information available.	



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13.)	DISPOSAL CONSIDERATIONS	
13.1.)	Waste treatment methods	
	Recommendation:	Disposal must be made according to official regulations.
	Waste disposal key number:	According to local/national regulations.
	European waste catalogue:	<ul> <li>Waste disposal key numbers from EWC have to be assigned depending on origin and processing. For that reason waste disposal key numbers different from that listed below may be possible.</li> <li>16 10 01 aqueous liquid wastes containing dangerous substances</li> </ul>
	Uncleaned packaging's:	
	Recommendation: Recommended cleaning agent:	Disposal must be made according to official regulations. Water, if necessary with cleaning agent.
14.)	TRANSPORT INFORMATION	
14.1.)	<b>UN-Number</b> ADR, IMDG, IATA	Void.
14.2.)	UN proper shipping name ADR, IMDG, IATA	Void.
14.3.)	<b>Transport hazard class(es)</b> ADR, IMDG, IATA Class	Void.
14.4.)	Packing group ADR, IMDG, IATA	Void.
14.5.)	Special precautions for user	Not applicable.
14.6.)	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code	Not applicable.
	Transport/Additional information:	Not dangerous according to the above specifications.
	UN "Model Regulation":	-
15.)	REGULATORY INFORMATION	
15.1.)	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	National regulations	
	Information about limitation of use:	Employment restrictions concerning young persons must be observed.
	Decree to be applied in case of technical fault:	Directive 96/82/EC does not apply.



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	Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	
	Other regulations, limitations and prohibitive regulations		
	Substances of very high concern (SVHC) according to REACH, Article 57:	This mixture does not contain any substances, that are included in the candidate list for eventual authorisation.	
15.2.)	Chemical safety assessment	A chemical Safety	y Assessment has not been carried out.
16.)	OTHER INFORMATION	These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.	
	Reasons for changes:	The Material Safety Data Sheet has been revised. Changes in classification and labelling.	
	Relevant phrases:	H318 H319	Causes serious eye damage. Causes serious eye irritation.
		R36 R41	Irritating to eyes. Risk of serious damage to eyes.
	Department issuing MSDS:		
	Abbreviations and acronyms:	ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
		IMDG: IATA GHS	International Maritime Code for Dangerous Goods. International Air Transport Association. Globally Harmonized System of Classification and
		EINECS	Labelling of Chemicals. European Inventory of Existing Commercial Chemical Substances.
		ELINCS CAS	European List of Notified Chemical Substances. Chemical Abstracts Service (division of the American Chemical Society).
		LC50 LD50	Lethal concentration, 50 percent Lethal dose, 50 percent.
	Sources:	These data are ba	ased on information submitted by pre-suppliers.
	Data compared to the previous version altered:		
	Revision date:	20.03.2016 / 19.0	4.2016 / 08.06.2016
	Version:	4	