EDSYN GMBH EUROPA

Zentrum für Löt- und Entlötsysteme

EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

16.07.2014

Material Safety Data Sheet - according to Regulation (EC) No. 1907/2006

INTERNATIONAL STANDARD NORM ISO 11014-1

Trade Name: FL 22	**Flux paste**	**F-SW 33** **DIN 29 454 / 1.2.3.A**
1.) **Identification of the company/undertaking and of the substance/mixture**		
1.1) **Manufacturer** **supplier:** **Adress:**	**EDSYN GMBH EUROPA** Finkenweg 2 D 97892 Kreuzwertheim	 Tel.: 09342 - 6413 Fax: 09342 - 6417
1.2) **Relevant identified uses of the substance or mixture and uses advised against**		
Use of the substances/mixture:	Industrial use of processing aids. Fluxes Paste	
Uses advised against:	No identified uses(s). Do not use for private purposes (household).	
2.) **HAZARDS IDENTIFICATION**		
2.1) **Classification of the substance or mixture** **Label elements:**	Danger symbols Xi - Irritant	
2.2) **Special dangers for human and environment**		
R-phrases:	36 Irritating to eyes.	
S-phrases:	25 Avoid contact with eyes. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 47/49 Keep only in the original container at temperature not 25°C.	
Special labeling of certain mixtures:	Restricted to professional users.	
2.3) **Other hazards**	See attached safety data sheets and/or usage instructions. No risks worthy of mention.	
3.) **COMPOSTITION / INFORMATION ON INGREDIENTS**		
3.1) **Mixtures** **Chemical characterization:**	Mixture related information Paste Data apply to the principal component. resin. / Activator	

3.2) Hazardous components	
Chemical name:	**Dicarboxylic acid mixture (C6)** EC-No. CAS-No. 124-04-9 Classification: Xi, R36 Index-No. GHS-classification: Eye Irrit. 2, H319 Quantity: 5-10% Full text of R and H phrases: see Section 16.
Further Information	Contains: resin. >> No risks worthy of mention. Contains: Fat., Fatty acid. resin. >> No risks worthy of mention. Dye carrier, Paint: yellow, yellow-orange >> No risks worthy of mention.
4.) FIRST AID MEASURES	
4.1) Description of first aid measures	
After inhalation:	Provide fresh air.
After contact with skin:	Wash with generous amount of water. Change contaminated clothing.
After contact with eyes:	If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.
After ingestion:	Rinse mouth immediately and drink large quantities of water.
4.2) Most important symptoms and effects, both acute and delayed	Rinse mouth immediately and drink large quantities of water.
4.3) Indication of any immediate medical attention and special treatment needed	No symptoms known up to now.
5.) FIRE-FIGHTING MEASURES	
5.1) Extinguishing media	
Suitable extinguishing media:	Extinguishing materials should be selected according to the surrounding area.
Extinguishing media which must not be used for safety reasons:	D powder.
5.2) Special hazards arising from the substance or mixture	The product itself is not combustible
5.3) Advice and special protective equipment for fire-fighters	In case of fire: Wear self-contained breathing apparatus. Safety clothes and compressed air from tanks.
5.4) Additional information	Use a water spray jet to knock down vapours/gases/mists. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6.) ACCIDENTAL RELEASE MEASURES	
6.1) Personal precautions, protective equipment and emergency procedures	Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eye and clothing. Wear personal protection equipment. Fresh air supply, keep unprotected persons away.
6.2) Environment precautions	Do not empty into drains or the aquatic environment.
6.3) Methods and material for containment and cleaning up	Collect mechanically. Treat the assimilated material according to the section on waste disposal. Take up with suitable binding agent and dispose in accordance with law.
6.4) Reference to other sections	Treat the assimilated material according to the section on waste disposal. See protective measures under point 7 and 8.
7.) HANDLING AND STORAGE	
7.1) Precautions for safe handling	
Advice on safe handling:	Conditions to avoid: Inhalation of vapours or spray/mists Use only in ventilated areas. Close container tightly after use. Avoid eye contact.
Advice on protection against fire and explosion:	Not highly flammable.
Further information og handling:	Avoid contact with skin and eyes.
7.2) Conditions for safe storage, including any incompatibilities	
Requirements for storage rooms and vessels:	Keep container tightly closed.
Advice on storage compatibility:	Please note: Storage class:
Further information on storage conditions:	Protect from direct sunlight. Store at a cool place
7.3) Specific end use(s)	Surface active agent **Further information**: refer to Technical Data Sheet.
8.) EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1) Control parameters	
Additional advice on limit values:	Does not contain substances above concentration limits fixing an occupational exposure limit.
8.2) Exposure controls	
Occupational exposure controls:	Do not breathe gas/fumes/vapour/spray.
Protective and hygiene measures:	Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

8.3) Personal protection equipment	
Respiratory protection:	Wear respiratory protection. Use appropriate respiratory protection. Only use breathing apparatus with CE-label including the four-digit identification number. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used! Filter respirator (full mask or mouth-piece) with filter: A
Hand protection:	**<u>Additional protection measures for the hands.</u>** Hand protection: DIN EN 374 -CR (polychloroprenes, Chloroprene rubber). Thickness of glove material: 0,65 mm penetration time (maximum wearing period): > 120 min. -NBR (Nitrile rubber).: Thickness of glove material: 0,4 mm penetration time (maximum wearing period): > 480 min. Breakthrough times and swelling characteristics of the material must be taken into consideration. Have periods of recovery for the regeneration of the skin. In case of reutilization, clean gloves before taking off and store in well-aired place. Gloves only to be worn once. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. Before using check leak tightness / impermeability. To avoid skin problems wear gloves only when necessary. Examine protective gloves before every use. Preventive skin protection by use of skin liniment.
Eye protection:	Safety glasses. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).
Skin protection:	For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).
Environmental exposure controls	No special measures are necessary.
9.) <u>PHYSICAL AND CHEMICAL PROPERTIES</u>	
9.1) Information on basic physical and chemical properties	
Physical state:	Paste
Colour:	beige - yellow
Odour:	characteristic
	Test method
pH-Value	not applicable etc.:
<u>Changes in the physical state</u>	
Melting point:	> 60°C
Boiling point:	> 300°C
Sublimation point.	not applicable etc.:
Density (at 20°C):	abt. 1 g/cm3

Solubility in other solvents	Isopropyl alcohol, Ethanol
Solvent content:	ca. 8%
9.2) Other information	
Solid content:	92%
10.) STABILITY AND REACTIVITY	
10.1) Reactivity	No risks worthy of mention.
10.2) Chemical stability	Stability and reactivity: Yes
10.3) Possibility to avoid	No risks worthy of mention.
10.4) Conditions to avoid	Keep away from heat.
10.5) Incombatible materials	No data available.
10.6) Hazardous decomposition products	Thermal decomposition can lead to the escape of irritation gases and vapours. No information available. In case of fire: see chapter no. 5
11.) TOXICOLOGICAL INFORMATION	
11.1) Information on toxicological effects	
Toxicocinetics, metabolism and distribution:	No data available

Acute toxicity
Dicarboxylic acid mixture (C6)

CAS-No	Exposure routes	Method / Dose	Species	Source
124-04-9	oral	LD50 / 5700mg/kg	Rat	

Irritation and corrosivity:	Irritation to eyes.
Additional information on tests:	The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).
12.) ECOLOGICAL INFORMATION	
12.1) Toxicity	No data available
12.2) Persistence and degradability	Avoid contact with skin and eyes.
12.3) Bioaccumulative potential	On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.
12.4) Mobility in soil	No data available
12.5) Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.

12.6) Other adverse effects	No data available. Do not mix with other wastes.
Further information	The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC). The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see chapter 3).
13.) <u>DISPOSAL CONSIDERATIONS</u>	
<u>Waste treatment methods</u>	
Advice on disposal:	Waste disposal according to official state regulations.
Waste disposal number of waste from residues/unused products:	**<u>200127</u>** MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS, separately collected fractions (except 15 01); paint, inks, adhesives and resins containing dangerous substances Classified as hazardous waste.
Waste disposal number of used product:	**<u>200127</u>** MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS, separately collected fractions (except 15 01); paint, inks, adhesives and resins containing dangerous substances Classified as hazardous waste.
Waste disposal number of contaminated packaging:	**<u>200101</u>** MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS, separately collected fractions (except 15 01); paper and cardboard
Contaminated packaging	Water (with cleaning agent). Completely emptied packings can be re-cycled.
14.) <u>TRANSPORT INFORMATION</u>	
UN-Nr.:	
14.1) <u>Land transport (ADR/RID)</u> **UN proper shipping name:**	Not a hazardous material with respect to these transportation regulations.
Other applicable information (land transport):	Not a hazardous material with respect to these transportation regulations.
14.2) <u>Inland waterways transport (ADN)</u> **UN proper shipping name:**	Not a hazardous material with respect to these transportation regulations.
Other applicable information (inland waterways transport):	Not a hazardous material with respect to these transportation regulations.

14.3) Marine transport (IMDG) **UN proper shipping name:**	Not a hazardous material with respect to these transportation regulations
Other applicable information (marine transport):	Not a hazardous material with respect to these transportation regulations
14.4) Air transport (ICAO) **UN-proper shipping name:**	Not a hazardous material with respect to these transportation regulations
Other applicable information (air transport):	Not a hazardous material with respect to these transportation regulations
14.5) Environmental hazards **Dangerous for the environment:**	No
14.6) Special precautions for user	Do not allow uncontrolled leakage of product into the environment.
14.7) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable etc.:
14.8) Other applicable information	Dumping into the environment must be prevented.
15.) REGULATORY INFORMATION	
15.1) Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU regulatory information	
1999/13/EC (VOC):	0%
Additional information	The receiver of our product is singulary responsible for adhering to existing laws and regulations.
National regulatory information	
Employment restriction	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Observe employment restrictions for women of child-bearing age.
Water contaminating class (D):	1 - slightly water contaminating
Additional information	The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.
15.2) Chemical safety assessment	Chemical safety assessments for substances in this mixture were not carried out.
16.) OTHER INFORMATION	
Full text of R phrases referred to under Sections 2 and 3	36 Irritating to eyes.
Full text of H statements referred to under Sections 2 and 3	H319 Causes serious eye irritation.

16.07.2014

16.1) Recommended restrictions of use:	For industrial purposes only
16.2) Revised on:	29.04.2013
Further Information	The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor`s safety data sheet.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other product. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.