

EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

28.03.2013

Material Safety Data Sheet - according to directive 91/155/EWG

INTERNATIONAL STANDARD NORM ISO 11014-1

Trade Name: SS				Solder w DIN EN 2	rire S-Sn60Pb380 29 453		Flux F-SW 32 DIN EN 29 454
1.) <u>MANUFACTURER</u> Address:			Finkenweg	MBH EUROPA g 2 Kreuzwertheim	Tel.: 09342 - 64 Fax: 09342 - 64	-	
2.) <u>COMPOSTITION / SPECIFICATION OF</u> <u>CONSTITUENTS</u>							
2.1) Chemical features:					r and lead, Flux: Sol olved halogen-free a	idified melt of (stabilized) activators	
2.2)	Compounds	5:					
Con	tent (in %)	Substance	EINE	CS No.	CAS No.	Symbols	R-sentences
	5 – 60,5	tin	231-1	41-8	7440-31-5	-	-
1,5 -	- 2,0	copper	231-1		7440-50-8	-	-
	ainder	lead	231-1		7439-92-1	Т	61, 62, 20/22, 23
< 3,5	5	colophony	232-4		8050-09-7	Xi	43
		carboxylic acid	204-6	73-3	124-04-9	Xi	36
4.)	FIRST AID N	MEASURES					
4.1) After skin contact:			In case of burns immediately cool the burnt area for several minutes with cold running water. In case of serious burns cover the wound with sterile material and contact a doctor.				
4.2) After eye contact:			Wash the eye with water for several minutes while holding up the lid. Contact a doctor!				
4.3) After swallowing:			After having swallowed the substance, provoke vomiting by drinking much water. See a doctor for medical treatment!				
4.4) After inhalation:			After having inhaled dust or fumes take the patient to the fresh air, give artificial reparation, if necessary. See a doctor for medical treatment! Symptoms of poisoning may occur only at a later time. Ventilate the working areas sufficiently during soldering.				
4.5) Information for doctors:			In case of acute intoxication, give i.v. Na ₂ Ca-EDTA or D-Penicillaminin. Or irrigation of the stomach with a 2-3% sodium sulphate solution and charcoal for the absorption of the produced lead sulphate. Do not give any milk or alcohol.				

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5.)	FIRE-FIGHTING MEASURES	
5.1)		Substance itself is not flammable. Use fire fighting measures suited for the environment concerned. Confine source of fire, prevent the fire from spreading to the surround area. Harmful vapours or smoke may form at the source of fire as a result of the action of the heat on lead-containing alloys. As they are inodorous, persons exposed to them may not be aware of the hazard! Wear respiratory equipment which is independent of the surrounding air.
5.2)	Attention!	Lead produces toxic lead oxides in form of conflagration gases.
5.3)	Notes for the fire fighters:	Extinguish with water, powder type fire extinguisher, carbonic acid, foam or spray water.
6.)	MEASURES IN CASE OF UNINTENTIONAL RELEASE	
6.1)	Personal safety precautions:	Get uninvolved people off the area to windward.
6.2)	Environmental safety protection:	Inform users of drinking, service and cooling water.
6.3)	Cleaning / removal measures:	Mechanical capture
7.)	HANDLING AND STORAGE	
7.1)	Handling:	The workplace has to be ventilated sufficiently. Do not inhale fumes. Observe the respective regulations of the employers' liability insurance association and the labour safety instructions and regulations of industrial hygiene.
7.2)	Protection against fire and explosion:	No special measures necessary.
7.3)	Requirements as to store rooms and receptacles:	No special requirements.
7.4)	Storage instructions:	
	Do not store together with:	foodstuffs, beverages and animal feed, gases which are compressed, liquefied or dissolved under pressure, self-igniting substances, substances developing inflammable gases when getting in contact with water, incendiary substances of group 1 according to TRGS 515, inflammable solid substances of storage class 4.1 A, flammable materials.
8.) 8.1)	LIMITATION OF EXPOSURE, PERSONAL PROTECTIVE OUTFIT AND ORGANIZATIONAL MEASURES Constituents with workplace-related	
	limiting values to be monitored:	BAT-value: lead concentration 400 μg/l blood, women under 45 years 300 μg/l

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8.3) General protective and hygienic measures: Dr. fir 8.4) Body protection: W 8.5) Organizational measures: In in: W W weight W W W W W W W W W W W W W W W W W W W W W W W W W W W W W	ead () in 2 Do not inhale dust, smoke, fun nishing the work it is recomm Vear protective clothes and sa Adequate protection ensured Instructions on hazards and pr nust be given prior to employr vacuation and escape plan m ocation, extension and type of vorking areas only permissible igns.	nes etc., wash hands before breaks. After ended to wash the whole body thoroughly. afety glasses; breathing mask, if necessary. only within specified wearing period!) rotective measures on the basis of operating with signature required. These instruments nent and then at least once a year. An oust be worked out if required due to f use of the working area. Access to the e of employees. Fix respective information	
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Pi		Act and of expectant and nursing mothers as age pursuant to the Maternity Protection	
9.) <u>PHYSICAL AND CHEMICAL</u> <u>FEATURES</u>			
Si	Solder	<u>Flux</u>	
Colour:silOdour:inSoftening point:inMelting point / range:18Boiling point / range:n.Flashpoint:n.Inflammation temperature:n.Decomposition temperature:n.Spontaneous inflammability:prExplosion hazard:prSolubility in water:in	olid ilvery nodorous 83 – 190 °C . a. . e. . a. . e. roduct is not self-igniting. roduct is not potentially explo nsoluble . a. = not applicable	solid yellowish to amber slight 75 – 85°C n. a. n. e. n. a. n. e. sive. insoluble n. b. = not estimable	
10.) STABILITY AND REACTIVITY			
	lo decomposition in case of a n contact with nitric acid.	ppropriate use. Formation of nitrous gases	
0)	Reacts with air and water and produces lead ions. Brisk reactions with oxidizing agents. Soluble in several acids. Lead is largely unstable to lyes; do not bring in contact with potash lye, caustic lye of soda and lime mortar.		

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11.)	TOXICOLOGY	
11.1)	Referring to hazards arising from lead:	TCL0 (inhalation, person)0,01 mg/m3TDL0 (orally, woman)450 mg/kg
11.2)	Further notes (on experimental toxicology):	Animal experiments showed mutagenic, reproduction-toxic effects and carcinogen effects.
12.)	ECOLOGICAL INFORMATION	
12.1)	General instructions:	Lead and lead compounds are not biologically decomposable. Dangers for drinking water by formation of water-soluble lead salts. Lead salts = water hazard class: 3.
		A number of activators used in this flux are regarded as being slightly hazardous to water = water risk class: 1.
13.)	INFORMATION AS TO THE DISPOSAL	
13.1)	Product:	Do not dispose with household rubbish. Waste should be recycled to the manufacturer.
13.2)	Identification of lead-containing waste (recommendation):	UN-number:3288Designation:toxic inorganic substance, n.a.g. (lead compounds)Class:6.1Packaging group:IIIR- / S-sentences:refer to item 15
13.3)	Waste code number:	According to EAK catalogue
13.4)	Unclean packing material:	Disposal according to government regulations. Unclean empty containers must be treated as hazardous waste.
14.)	TRANSPORT REGULATIONS	
14.1)	Land transport ADR/RID and GGVS/GGVE	
	(transnational/national) ADR/RID-GGVS/E Class:	none
14.2)	Sea vessel transport IMDG/GGV See IMDG/GGV See-Class:	none
14.3)	Air transport ICAO-TI and IATA-DGR ICAO/IATA-Class:	none
14.4)	Transport / further information:	No hazardous good according to the above regulations.
15.)	REGULATIONS	
15.1)	Identification according to EC Directives:	This product is not subject to identification requirements according to the Directive 1999/45/EC Annex VII in connection with the Directive 67/548/EEC Annex VI Number 9.3.

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15.2)	Information according to Directive 67/548/EEC Annex VI Number 9.3:		
	Identification letter and hazard definition of the product:		
	R-sentences:	 20 / 22 Also harmful to the health by inhaling and swallowing Hazard of cumulative effects Can cause injury to the embryo/foetus in the womb Might impair the reproduction ability 	
	S-sentences:	 45 Contact doctor immediately in case of accident or sickness (show this label if possible) 53 Avoid exposition – seek special instructions before use 60 This product and is containers have to be disposed of as hazardous waste 61 Avoid release to the environment. Seek special instructions/ read the security data sheet. 	
15.3)	Classification according to the Ordinance on Industrial Safety:	Not applicable	
15.4)	Classification according to the Ordinance on Combustible Fluids:	Not applicable	
15.5)	Water hazard class:	This product is not hazardous to water	
16.)	FURTHER NOTES	The information given in this security data sheet reflects the latest knowledge ref. to our product. The security data sheet intends to describe the product with reference to its safety requirements. This does not imply a warranty that our product is of a specific quality in terms of liability or guarantee provisions and therefore, the information is without obligation.	

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