LogiLink

Material Safety Data Sheet

According to GB/T 16483-2008 & UN GHS 4.0 revision

1. Chemicals and Identification

	1.1 products validation		
	product name	SA0001, SA0002, SA0007, SA0008	
	descriptions	Lead solder	
	identifying information	unknown	
1.2 recommended and restrictions on use			
	1.2.1 recommended	soldering for electronic parts and components	
1.2.2 restrictions		unknown	
1.3 Supplier information			
	Manufacturer	2direct GmbH	
	Address	Langenstück 5 D-58579 Schalksmühle, Germany	
	Mail box	info@2direct.de	
	TEL	+49 235166887-0	
	FAX	+49 235166887-29	
	1.4Emergency calls	+49 235166887-0 Only available during office hours.	

2. Hazards summarizing

physical hazards health hazards

2.1 classification of substances and mixture

2.1.1 GHS hazards classification

Unclassified	
Inhalation hazard	category 1
Respiratory sensitization	category 1B
Reproductive toxicity	category 2
Specific target organ system toxicity	
repeating contact	category 2

environmental hazards 2.2 Label element

pictogram

Warning words hazard statement

Hazards of Aquatic environment

category 2



Danger Inhalation and if swallowed May cause sensitization by skin contact Vapours may cause drowsiness and dizziness

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Precautionary statement

precautionary measure	Stay away from high temperature
	Far away from strong acid and alkali
	Don't inhale smoke and vapour
	Washing hands thoroughly after handling.
	Don't eat and drink when soldering
	wear gloves/goggles/face guard.
accident response	After swallowing, induce vomiting if person is conscious, seek medical help.
	After skin contact, immediately wash with soap and rinse.
	After inhalation: supply fresh air, keep breathing smooth.
	Of fire, use dry chemical, carbon dioxide, sandy soil .
storage	Stored in dry shade
disposal	According to local regulations

3. composition information

material or mixture:

mixture

Composition:

chemical name	CAS	(%) content
tin	7440-31-5	59-61
lead	7439-92-1	37-39
copper	7440-50-8	1.5-2.5
rosin	65997-06-0	≤2.5

4. first-aid measures

4.1 summarize	
inhalation	Supply fresh air, keep breathing smooth. If difficult in breath, oxygen; if respiratory
	arrest, artificial respiration then hospitalize.
skin contact	immediately wash with soap and rinse
eye contact	opened eye lip, Rinse under running water, see doctor.
ingestion	If person is conscious, induce vomiting, see medical help.
4.2 acute and late effects	Inhalation may damage respiratory tract
4.3 First-aid personnel protection	Let medical staffs know involved matter, to take measures to protect themselves.
4.4 Special tips for doctor	Provide general measures, according to the treatment of symptoms

5. fire-fighting measures

5.1 out-fire method and extinguishing agent	dry chemical, carbon dioxide, sandy soil
improper	Once-through water
5.2 special risk	Heated to break down, or under the condition of fire, will release carbon monoxide,
	carbon dioxide, aliphatic aldehydes.



6. Accidental release measure 6.1 personal precautions Ensure adequate ventilation, Avoiding contact with eye and skin, and inhalation 6.2 environmental precautions Do not allow product to reach sewage or any water course 6.3 Leakage take in and cleaning method No leak 6.4 Secondary hazard prevention measures No special advice. 7. handling and storage Thandling technical measures No special advice. partial or full ventilation Adequate ventilation

precautionary measures	Develop healthy habit, avoid contact with skin and eyes. Washing after handling,	
	equipped personal protection device. Washing hands and avoiding inhalation.	
operation instruction	Introduce personal protection from SDS part 8.	
7.2 safe storge		
technical measures	Far away from fire source, strong acid and alkali	
condition	Dry and cool space	
should be away	strong acid and alkali	
packing materials	no special advice	

8. contact controls and personal protection

8.1 contact controls		
8.1.1 allowed concentration	unknown	
8.1.2 Eng control way	According to good industrial hygiene and safety practice, wash hands after handling or	
	in break.	
8.2 personal protection device		
respiratory system protection	Avoid inhalation of steam, pls wear mask	
eye protection	May flash or contact eyes, pls wear glass	
skin and body protection	pls in anti-static overalls	
sanitary measures	Before break and after handling washing hands immediately. Operation based on good	
	industrial hygiene and safety practice.	

9.1 general information		
apperance	slivery solid	
physical state	solid	
shape	solid wire	
smell	tasteless	
PH value	unknown	
melting and freezing point	195/183°C	
boiling point, initial boiling point		
and range flash point	unknown	
autoignition temperature	unknown	
(%) : combustion limits-floor level	unknown	
(%) : upper level	unknown	

9. physical and chemical properties

(%): explosion limits-floor level	unknown
(%): explosion limits-upper level	unknown
density	8.5g/cm ³ (20°C)
solubleness	insoluble in water
9.2 other dates	
solubility	unknown
smell threshold value	unknown
evaporation rate	unknown
ignitability(solid, gas)	unknown
surface tension	unknown
light temperature	unknown
viscosity	unknown
molecular formula	unknown
molecular weight	Unknown

10. stability and reactivity

10.1 stability	Under the condition of normal operation and storage stability
10.2 The possibility of risk response	No hazardous reaction under normal use
10.3 should be avoided	High temperature
10.4 incompatible substances	Strong acid/alkali
10.5 harmful decomposition products	Carbonic oxide, carbon dioxide

11. toxicological information

11.1 Toxicokinetics, metabolism and distribution	unknown
11.2 toxicological information	
-	
acute toxicity	
LD50: per oral, rat	5mg/kg (IUCLID)
LD50: per skin, hare	unknown
LC50: inhalation, rat	40000 ppm 4 hr. (RTECS)
skin irritation or corrosion	unclassified
eye irritation or corrosion	unclassified
respiration or skin sensibility	unclassified
germ cell mutagenicity	unclassified
carcinogenicity	unclassified
reproduction toxicity	unclassified
Specific target organ system toxicity-	unclassified
One-off contact	
Specific target organ system toxicity-	unclassified
Repeating contact	
inhalation risk	Unclassified

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12. ecology information

12.1 ecotoxicity

fish	unknown
daphnia	unknown
algae	unknown
12.2 durability and degradability	unknown
12.3 possible biological accumulation	unknown
12.4 mobility in soil	unknown

12.5 other	harmful	effects
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unknown

13. abandon dispose	
13.1 residual waste	According to local regulation
13.2 polluted package 13.local disposal regulation	unknown unknown

14. transport information

	(ADR/RID)	(IMDG)	(ICAO/IATA)
	road transportation	ocean carriage	air transportation
UN dangerous cargos No.	unknown	unknown	unknown
UN carriage name	unknown	unknown	unknown
UN perniciousness classify	unknown	unknown	unknown
packing group	unknown	unknown	unknown
marine pollutant	no	no	no
Special precautionary measures	See 2.2	See 2.2	See 2.2

15. regulation information

15.1special regulation/legislation of safety, health and environmental for materials and mixtures

if recorded by chemical catalogues of other countries		
IECSC:	No recorded	
EINECS:	No recorded	
EPA TSCA:	No recorded	
DSL/NDSL:	No recorded	
GB12268-2012: hazardous articles list	No recorded	



Below laws, regulations and standards, make relevant stipulation for safe handling, storage, transportation, loading and uploading, classification and mark of chemicals.

the production saefty law of people's republic of china the occupational disease prevention law of the people's republic of china the environmental protection law of the people's republic of china Hazardous chemical materials safety management regulation Safety production license

15.2 Downstream consumption attention

Dispose should be accord with relevant law and regulation

16. Other informations

16.1 change explain

According to standard GB/T16483-2008 < the chemical safety date sheet content and project order>, revised the former

version SDS

16.2 training suggestion: No

16.3 detailed information

All information based on our current date, the SDS (the chemical safety date sheet) is only for this product.

16.4 reader attention

Owner of enterprise can only be used as beneficial supplement of other information obtained, and should be judged to this data properly. Be sure of moderate use for this product, guarantee health and safety of the workers. This data does not provide a guarantee, if there is any use behavior which violate this SDS or used with other products and programs, the consequence shall be borne by the users themselves.

16.5 abbr.

ADR : About international transport of dangerous goods road European protocol

IMDG : International maritime transport of dangerous goods rules

EINECS : European Inventory of Existing Chemical Substance

- IATA: International Air Transport Association
- ICAO-TI : (ICAO) International Civil Aviation Organization
- CAS : chemical abstracts No.
- LC50: lethal concentration 50%
- EC50 : effect concentration 50%
- LD50 : lethal dose of 50%

The materials safety date sheet written based on optimum information of security and proper usage. But, we can't guarantee the timeliness and other express or hint information. To these data, our company do not bear any duty from the employ. The user should confirm the best information for their special usage after own research. Before use this product, every user should read this date carefully. If need more information for correct evaluation, pls contact with our company.