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according to 1907/2006/EC, Article 31

Printing date 15.12.2023

Version number 3

Revision: 15.12.2023

1 Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier Trade name: 4902p · Other Means of Identification: Sn42/Bi57/Ag1 Low Temperature Solder Paste · Related Part Number: 4902P, 4902P-15G, 4902P-25G · UFI: JVD0-T05Q-600A-MAV3 · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Sodler paste. · 1.3 Details of the supplier of the safety data sheet M.G. Chemicals Ltd. Manufacturer/Supplier: MG Chemicals Ltd. (Head Office) 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA +(1) 800-340-0772 MG Chemicals Heame House, 23 Bliston Street Sedgely Dudley DY3 1JA. UNITED KINGDOM +(44) 1663 362888 sales@mgchemicals.com MG Chemicalst Ltd. Level 2, Vision Exchange, Building Territorials Street, Zone 1. Central Business, District, Birkirkara CBD 1070. MALTA · Further information obtainable from: sds@mgchemicals.com · 1.4 Emergency telephone number: Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111 Verisk 3E (Access code: 335388), +(44) 20 3514787 Other emergency telephone numbers: +(0) 800 680 0425 2 Hazards identification · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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rade name: 4902p		
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¥¥		
GHS09 environm	ient	
Aquatic Chronic 2 H411 To	oxic to aquatic life with long lasting e	effects.
GHS07		
Skin Sens. 1 H317 Ma	ay cause an allergic skin reaction.	
· 2.2 Label elements		
	egulation (EC) No 1272/2008	
The product is classified ar • Hazard pictograms	nd labelled according to the GB CLF	P regulation.
¥,		
GHS08 GHS09		
· Signal word Danger		
· Hazard-determining com	ponents of labelling:	
Rosin		
Hazard statements H334 May cause allergy or	r asthma symptoms or breathing difi	ficulties if inhaled
H317 May cause an allergi		
H411 Toxic to aquatic life v		
Precautionary statements		
-	ach of children.	
P261 Avoid breathin		
P261 Avoid breathin		
P280 Wear protectiv		
P284 [In case of ina	dequate ventilation] wear respirator	y protection.
	respiratory symptoms: Call a POIS	
	ontents/container in accordance	e with local/regional/national/
international re	egulations.	
Additional information:		
Safety data sheet available	e on request.	
2.3 Other hazards		
• Results of PBT and vPvB	assessment	
· PBT: Not applicable.		
 vPvB: Not applicable. Determination of endocri 	ine-disrupting properties	
Endocrine Disruptor substa		

- 3.2 Mixtures
 Description: Mixture of substances listed below with nonhazardous additions.

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Dangerous components:	
CAS: 7440-69-9 bismuth	51.0%
EINECS: 231-177-4 🚸 STOT SE 1, H370; STOT RE 1, H372	
CAS: 7440-31-5 tin	38.0%
EINECS: 231-141-8 🚸 STOT RE 1, H372	
CAS: 505-48-6 suberic acid	3.0%
EINECS: 208-010-9 () Eye Irrit. 2, H319	
CAS: 8050-09-7 Rosin	3.0%
EINECS: 232-475-7 () Skin Sens. 1, H317	
CAS: 7440-22-4 Silver (Powder <0.0001mm)	<i>≥</i> 0.25–<1%
EINECS: 231-131-3 (Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=100)	
Non-hazardous components and components below classification thres	hold
110-30-5 N,N'-ethylenedi(stearamide)	0.5%
Additional information: For the wording of the listed hazard phrases refer to	section 16.

4 First aid measures

· 4.1 Description of first aid measures

• General information: Immediately remove any clothing soiled by the product.

- · After inhalation:
- Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist 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

No further relevant information available.

5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.

- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

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- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
 6.4 Reference to other sections
- *6.4 Reference to other sections* See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. • Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

- 8050-09-7 Rosin
- WEL Short-term value: 0.15 mg/m³ Long-term value: 0.05 mg/m³ Sen

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- Do not inhale dust / smoke / mist.
- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· Material of gloves

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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

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Not required.

9 Physical and chemical properties

 9.1 Information on basic physical and che General Information 	mical properties	
· Physical state	Solid	
· Colour:	According to product specificat	tion
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	219 °C	
Boiling point or initial boiling point and		
boiling range	138 °C	
· Flammability	Not determined.	
 Lower and upper explosion limit 		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
 Decomposition temperature: 	Not determined.	
· pH	Not applicable.	
· Viscosity:		
· Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
· Solubility		
· water:	Soluble.	
 Partition coefficient n-octanol/water (log 		
value)	Not determined.	
 Vapour pressure at 840 °C: 	1 hPa (7440-69-9 bismuth)	
 Density and/or relative density 		
· Density at 20 ℃:	8.6 g/cm³	
· Relative density	Not determined.	
Vapour density	Not applicable.	
Particle characteristics		
See section 3.		
9.2 Other information		
· Appearance:		
· Form:	Solid	
Important information on protection o		
health and environment, and on safety.		
· Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an e	xplosion hazard.
Solvent content:		
· Solids content:	100.0 %	
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 Change in condition 		
· Evaporation rate	Not applicable.	
 Information with regard to physic 	al hazard	
classes		
· Explosives	Void	
· Flammable gases	Void	
· Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
Flammable liquids	Void	
· Flammable solids	Void	
· Self-reactive substances and mixed	tures Void	
· Pyrophoric liquids	Void	
• Pyrophoric solids	Void	
· Self-heating substances and mixt	t ures Void	
· Substances and mixtures, which		
flammable gases in contact with u	water Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
 Desensitised explosives 	Void	

10 Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be 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: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

7440-69-9 bismuth

- Oral LD50 5,000 mg/kg (rat)
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation
- Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.

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· Aspiration hazard Based on available data, the classification criteria are not met.

- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

12 Ecological information

· 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

• 12.2 Persistence and degradability No further relevant information available.

- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

13 Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP14 Ecotoxic

Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA
- · 14.2 UN proper shipping name

· ADR

UN3077

NOT REGULATED by Ground ADR Special Provision 375 for sizes 5kg or less. 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. NOT REGULATED by Sea IMDG per 2.10.2.7 for sizes 5kg or less.

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rade name: 4902p		
	ENVIRONMENTALI	(Contd. of page 7
	SUBSTANCE, SOLID, N. NOT REGULATED by Provision A197 for sizes 5 Environmentally hazard	O.S. ⁄ Air IATA Specia ˈkg or less.
14.2 Turnen out beyond close (ac)	n.o.s.	
 14.3 Transport hazard class(es) ADR, IATA 		
Class	9 Miscellaneous dange articles.	rous substances and
Label	9	
IMDG		
· Class	9 Miscellaneous dange articles.	rous substances an
	9	
· 14.4 Packing group		
· ADR, IMDG, IATA · 14.5 Environmental hazards:	<i>III</i>	
Special marking (ADR):	Symbol (fish and tree)	
Special marking (IATA):	Symbol (fish and tree)	
14.6 Special precautions for user	Warning: Miscellaneous of and articles.	dangerous substance.
Hazard identification number (Kemler	00	
code): · EMS Number:	90 F-A,S-F	
· Stowage Category	г- <i>А,</i> З-г А	
· Stowage Code	SW23 When transported see 7.6.2.12 and 7.7.3.9.	in BK3 bulk container
 14.7 Maritime transport in bulk according to IMO instruments 	g Not applicable.	
· Transport/Additional information:		
ADR		
Limited quantities (LQ)	5 kg	
 Excepted quantities (EQ) 	Code: E1 Maximum net quantity per Maximum net quantity 1000 g	
· Transport category	3	
Tunnel restriction code	(-)	
· IMDG · Limited quantities (LQ)	5 kg	

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· Excepted quantities (EQ)		(Contd. of page 8) quantity per inner packaging: 30 g t quantity per outer packaging:
· UN "Model Regulation":	1000 g UN 3077 EN\	/IRONMENTALLY HAZARDOUS , SOLID, N.O.S. 9, III
15 Regulatory information		
substance or mixture Poisons Act Regulated explosives precure	sors	s/legislation specific for the
None of the ingredients is listed • Regulated poisons		
None of the ingredients is listed • Reportable explosives precu		
None of the ingredients is listed • Reportable poisons	<i>l.</i>	
None of the ingredients is listed	l.	
 Directive 2012/18/EU Named dangerous substance Seveso category E2 Hazardo Qualifying quantity (tonnes) Qualifying quantity (tonnes) DIRECTIVE 2011/65/EU on the electrical and electronic equitival 	us to the Aquatic Environme for the application of lowe for the application of uppe e restriction of the use of o	nt r-tier requirements 200 t
None of the ingredients is listed		
· REGULATION (EU) 2019/1148	} .OSIVES PRECURSORS (U	pper limit value for the purpose
None of the ingredients is listed • Annex II - REPORTABLE EXF	l.	
None of the ingredients is listed • Regulation (EC) No 273/2004		
None of the ingredients is listed • Regulation (EC) No 111/200 the Community and third cou	5 laying down rules for th	ne monitoring of trade between
None of the ingredients is listed • 15.2 Chemical safety assessm A Chemical Safety Assessment	nent:	
6 Other information		

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

*

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H370 Causes damage to organs.

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	issuing SDS: Product safety department.	
	@mgchemicals.com	
	rious version: 27.11.2023	
	ns and acronyms:	
ADR: Accord r	elatif au transport international des marchandises dangereuses par route (European Agree	mer
	nternational Carriage of Dangerous Goods by Road)	
	nal Maritime Code for Dangerous Goods	
	al Air Transport Association	
	armonised System of Classification and Labelling of Chemicals	
	ean Inventory of Existing Commercial Chemical Substances	
,	an List of Notified Chemical Substances Abstracts Service (division of the American Chemical Society)	
	ncentration, 50 percent	
LD50: Lethal do		
	Bioaccumulative and Toxic	
	istent and very Bioaccumulative	
	ity estimate values	
	us eye damage/eye irritation – Category 2	
	Respiratory sensitisation – Category 1	
Skin Sens. 1: Si	in sensitisation – Category 1	
STOT SE 1: Sp	ecific target organ toxicity (single exposure) – Category 1	
STOT RE 1: Sp	ecific target organ toxicity (repeated exposure) – Category 1	
	Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic	1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
	2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
* Data com	ared to the previous version altered.	