

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

Version 1.02

Date of issue: 26.08.2008

Date of revision I: 28.12.2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking**PRODUCT IDENTIFIER** EASY PRINT Sn96,5/Ag3/Cu0,5**Relevant identified uses of the substance and the uses advised against:**

Paste designed for soldering SMD components in production processes that do not include washing phase

Uses advised against: not specified**Details of the supplier of the safety data sheet:****PRODUCER:** AG Termopasty Grzegorz Gąsowski
18-100 Łapy, ul. Harcerska 8, 85 715 33 28

E-mail address of the person responsible for Safety Data Sheet: biuro@termopasty.pl

Emergency telephone number 85 715 33 28 (8:00 a.m. – 4:00 p.m.)

Toxicological information 22 618 77 10, National Toxicological Information Centre 42 631 47 24

SECTION 2: Hazards identification

Sensitizing mixture.

HUMAN HEALTH HAZARDS

In contact with skin can cause sensitization.

ENVIRONMENTAL HAZARDS

Not classified as dangerous to the environment.

PHYSICAL/CHEMICAL HAZARDS

Not hazardous during normal use.

The product is subject to mandatory labelling.**Label elements:**

Contains: rosin

**Xi – irritating****Phrases describing types of hazard (R-phrases)****R43** – May cause sensitisation by skin contact**Phrases describing conditions relating to the safe use of the substance (S-phrases)****S24/25** – Avoid contact with skin and eye**S37** – Wear suitable gloves**Other hazards:**

No information on meeting the PBT and vPvB criteria in accordance with Attachment 13 to REACH Regulation. Relevant testing was not performed.

SECTION 3: Composition/information on ingredients

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

Substances:

Not applicable.

Mixtures:

Dangerous ingredients:

Product identifier	Percentage %	Classification to 67/548/EEC	CLP classification	
			Class of hazard and category codes	Codes of phrases indicating hazard type
<u>Rosin</u> CAS no. : 8050-09-07 EC no . : 232-475-7 Index no . : 650-015-00-7 REACH no. : substance subject to regulations for transition period	3 - 6	R43	Skin sens. 1	H317

Full content of R- and H-phrases in section 16

Other Ingredients:

Tin CAS no: 7440-31-5, EC no: 231-141-8 Concentration: 80-90%

Silver CAS no: 7440-22-4; EC no: 231-131-1 Concentration 1-5%

Copper CAS no: 7440-50-8; EC no: 231-159-6 Concentration 0,1-1%

Section 4: First aid measures**IN CASE OF SKIN CONTACT:**

Wash with plenty of water. If skin irritation persists provide medical care.

IN CASE OF EYE CONTACT:

Rinse eyes with plenty of water for approx. 15 minutes, consult a physician. Avoid strong jet due to the risk of damage to cornea persists, seek medical advice. If eye irritation persists, provide medical care.

EXPOSURE TO INHALATION:

Move to a fresh air atmosphere. In case of persistent symptoms provide medical care.

IN CASE OF SWALLOWING:

After ingestion induce vomiting immediately (within 5 min.). Administer 1-2 glasses of milk or water to drink. Contact a physician immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Skin contact: sensitization.

Eye contact: lacrimation, irritation.

Respiratory system: irritation of mucous membranes of upper respiratory tract. Prolonged or repeated exposure to fines can cause sensitization of respiratory tract.

Intestinal tract: swallowing can stop vermicular movement. When swallowed in high dose, can reduce contractility of skeleton muscles and slows down the action of smooth muscles.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Decision on treatment is taken by physician after evaluation of condition of affected person

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

SECTION 5: Firefighting measures

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:

Foam resistant to alcohols, carbon dioxide, extinguishing powder.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water compact jet.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE:

Possible formation of hazardous vapours of metal oxides

ADVICE FOR FIREFIGHTERS:

Substances harmful to human health can be released during fire. Wear gas-tight protective clothing and apparatus protecting respiratory tract (oxygen respirator combined with mask). Prevent from ingress of extinguishing agents to sewage system or watercourses. Notify the surroundings on the fire. Remove any persons not involved in fire extinguishing action from the area exposed to hazard. Notify National Fire Brigade and when necessary also Police, local self-government authorities and the nearest chemical rescue unit.

SECTION 6: Accidental release measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

For persons not belonging to rescue personnel: notify appropriate services on the emergency. Remove any persons not involved in firefighting action from the area exposed to hazard.

For rescue personnel: provide appropriate ventilation, use personal protective equipment.

ENVIRONMENTAL PRECAUTIONS:

In case of emergency prevent from discharges to the environment. Secure the product against release into sewage channels, watercourses and subterranean water as well as to the soil. Make any possible attempts to collect it to suitable containers for further disposal.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Collect mechanically. Material stored in tightly closed metal or plastic container.

REFERENCE TO OTHER SECTIONS

See section 13 for waste disposal.

See section 8 for personal protection measures.

SECTION 7: Handling and storage of substances and their mixtures

PRECAUTIONS FOR SAFE HANDLING:

Avoid contact of liquid and hot preparation with eyes and skin. Do not swallow. Use personal protective equipment. Wipe out the remnant material and then wash communication path using water with detergent. Rooms should have sufficient local and general ventilation. Follow health and safety procedures: do not

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

consume neither food nor beverages and do not smoke in the workplace, wash hands after use; before entering rooms designed for having meals take off contaminated clothing and protective equipment.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in a well ventilated, cold and dry place. When not in use, containers should be stored in airtight closed state.

SPECIFIC END USE(S):

Paste designed for soldering SMD components in production processes that do not include washing phase. Product intended for professional use only.

SECTION 8: Exposure controls/personal protection

CONTROL PARAMETERS:

Regulation of the Minister of Labour and Social Policy of 29 November 2002 on highest permissible concentrations and intensities of agents and impacts hazardous to human health in the work environment. (L.J. no. 217/2002, item 1833 as amended: L.J. no. 212/2005, item 1769, L.J. no. 161/2007, item 1142, L.J. no. 105/2009, item 873);

Hazardous substances. threshold limits for maximum allowable concentrations that are subject to control

	Substances	CAS no	TLV	TLV-STEL	TLV-CL
1.	Tin metal and inorganic tin compounds except stannite as Sn – fumes and dusts	7440-31-5	2	-	-
2.	Copper, elemental, and inorganic compounds as Cu	7440-50-8	0,1	0,3	-
3.	Silver – fumes and dusts	7440-22-4	0,05	-	-

DETERMINATION IN AIR ON WORKSTATIONS

Regulation of the Minister of Health of 20 April 2005 *on testing and measurements of agents and impacts harmful to human health in the work environment* (L.J. no. 73/2005, item 645 as amended);

PN-EN 1540:2004 Air on workstations – Terminology; PN-Z-04008-7:2002 Clean air protection.

Measurements of concentrations of chemical substances and dust in air of work environment. Rules on air sampling in the work environment and interpretation of results;

PN-Z-04008-7:2002/Az1:2004 Correction to the standard on clean air protection. Measurements of concentrations of chemical substances and dust in air of work environment.

Rules on air sampling in the work environment and interpretation of results.

Dust: PN-91/Z-04018/02, PN-91/Z-04018/03, PN-91/Z-04018/04, PN-91/Z-04030/05, PN-91/Z-04030/06, PN-Z-04008-7:2002, PN-EN 481:1998, PN-ISO 4225:1999, PN-ISO 4225/Ak:1999, PN-EN 1540:2004;

EXPOSURE CONTROLS:

Adolescent employees are not allowed to perform work when exposed to action of chemical substances and preparations classified as irritating (Xi), which are attributed phrase describing hazard: ‘can cause sensitization by skin contact (R43), unless obtained specialist medical opinion on lack of contraindications for allergens contact.

APPROPRIATE TECHNICAL MEANS OF CONTROL:

Efficient local exhaust ventilation as well as general ventilation of room is essential.

PERSONAL PROTECTION MEANS SUCH AS PERSONAL PROTECTION EQUIPMENT:

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

EYE OR FACE PROTECTION:

Avoid eye contact. While exposure possibility exists during handling, wear safety goggles with side shields or safety goggles with anti-fog feature (when used with half-mask).

SKIN PROTECTION:

Hands protection: wear safety gloves made from natural, nitrile or butyl rubber.

Material for gloves:

Selection of suitable gloves depends not only from the material but also from make and quality which may differ from producer to producer. Resistance of material used for production of gloves can be determined after conducting of tests. Accurate lifetime of gloves must be specified by their producer.

Other: Avoid skin contact.

PROTECTION OF RESPIRATORY TRACT:

Avoid inhalation of fines. When concentration of substance is stable and known, personal protection measures should be selected with taking into consideration concentrations present in a given workstation, duration of exposure, actions performed by employee and recommendations given by the producer of personal protection equipment. In emergency situations use canister absorbing organic substances combined with mask or half-mask.

THERMAL HAZARDS:

Not applicable.

BIOLOGICAL MONITORING:

Not defined.

ENVIRONMENTAL EXPOSURE CONTROLS:

Permissible level of substances in air – Regulation of the Minister of Environment of 3 March 2008 *on levels of selected substances in air* (L.J. 47/2008, item 281): not defined.

Permissible values of contamination indices of industrial effluents entering sewage systems – Regulation of Minister of Construction of 14 July 2006 *on methods of fulfilment of obligations of industrial effluent suppliers and conditions for introducing of effluents into sewage facilities* (L.J. no. 136/2006, item 964) not defined.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties:**

Appearance:	solid paste, gray
Odour:	mild odor
pH:	not applicable
Boiling point:	not applicable
Melting point:	not applicable
Ignition point:	110°C
Autoignition point:	not determined
Explosion limits:	not applicable
Vapour pressure:	0,05mmHg (20°C)
Specific gravity:	not determined
Vapour density:	not determined
Solubility in / Miscibility with water	Insoluble
Other solvents:	Partially soluble in organic solvents: acetone, propanol-2, etc.
Vaporization rate:	not determined

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

Other information:

No other test results.

SECTION 10: Stability and reactivity**REACTIVITY:**

Low

CHEMICAL STABILITY:

Stable when appropriate conditions of storage and use are kept.

POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization not anticipated.

CONDITIONS TO AVOID:

Unknown

INCOMPATIBLE MATERIALS:

Avoid contact with strong oxidizers and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Peroxides

SECTION 11: Toxicological information**INFORMATION ON TOXICOLOGICAL EFFECTS:**

- a) acute toxicity: data not available.
- b) irritating action: not shown
- c) corrosive action: not shown
- d) sensitizing action: possible sensitization
- e) toxicity for repeated dose: data not available
- f) carcinogenicity: not shown
- g) mutagenicity: not shown
- h) toxicity for reproduction: not shown

None of the ingredients of the product is classified as cancerogenic, mutagenic or toxic for reproduction in accordance with provisions of the Act of 11 January 2001 on chemical substances and preparations (L.J. no. 11/2001, item 84 as amended) and is not included in the list of carcinogenic or mutagenic substances, constituting the attachment of Regulation of the Minister of Health of 1 December 2004 on carcinogenic or mutagenic action of substances, preparations, technological agents or processes in the work environment (L.J. no. 280/2004, item 2771).

Detailed tests for product toxicity were not performed. For the sake of components the mixture is classified as product hazardous to human health. It is sensitizing. It can cause sensitization in contact with skin

INFORMATION ON POTENTIAL EXPOSURE ROUTES:**INHALATION EXPOSURE:**

Can cause irritation of mucous membranes of upper respiratory tract. Prolonged or repeated exposure to fines can cause sensitization of respiratory tract.

SKIN CONTACT:

Avoid skin contact. Can cause sensitization in when contact with skin.

EYE CONTACT:

Avoid eye contact. Can be irritating to eyes.

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

SWALLOWING:

Swallowing of the preparation can stop vermicular movement.

Delayed, immediate and chronic effects of short and long term exposure:

Data not available

Effects of interaction:

Data not available

SECTION 12: Ecological information

Detailed testing was not performed, thus no data is available. The mixture not classified as hazardous to the environment. Ingress to and dissipation in soil, sewage system, subterranean water and watercourses has to be avoided

TOXICITY:

Data not available.

PERSISTENCE AND DEGRADABILITY:

Data not available.

BIOACCUMULATIVE POTENTIAL:

Data not available.

MOBILITY IN SOIL:

Data not available.

RESULTS OF PBT AND vPvB ASSESSMENT:

Data not available.

OTHER HARMFUL EFFECTS:

Data not available.

SECTION 13: Disposal considerations**SPENT PRODUCT**

Do not remove to sewage system. Prevent contamination of surface and subterranean water. Do not remove together with municipal waste. Combust in hazardous waste incineration plant in presence of inflammable materials. Procedure for disposal of collected waste has to be agreed upon with Environmental Protection Department of the Voivodship or Poviatic Office. To be disposed of as hazardous waste. code: 11 05 04 spent flux (regulation of the Ministry of Environment, L.J. no. 112/2001, item 1206).

CONTAMINATED PACKAGING

Emptied disposable packaging transfer to authorized waste processing business. Packaging code: 15 01 10 Packaging containing remnants of hazardous substances or contaminated with these substances (regulation of the Ministry of Environment, L.J. no. 112/2001, item 1206).

Community regulations on wastes:

Directive no. 75/442/EEC of the Council on wastes, Directive no. 91/689/EEC of the Council on hazardous wastes, Commission Decision no. 2000/532/EC of 3 May 2000 establishing a list of hazardous

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

wastes, OJL 226/3 of 6 September 2000, together with amending decisions.

SECTION 14: Transport information

UN number: Not applicable, product not classified as hazardous in transport.

UN proper shipping name: Not applicable, product not classified as hazardous in transport.

Transport hazard class: Not applicable, product not classified as hazardous in transport.

Packing group: Not applicable, product not classified as hazardous in transport.

Environmental hazards: Not applicable, product not classified as hazardous in transport.

Special precautions for end users: Not applicable, product not classified as hazardous in transport.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable, product not classified as hazardous in transport.

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), as amended.

COMMISSION REGULATION (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Act of 11 January 2001 on chemical substances and preparations (L.J. no. 11, item 84 as amended).

Regulation of the Minister of Health of 2 September 2003 on criteria and procedure of classification of chemical substances and preparations (L.J. no. 171, item 1666, as amended).

Regulation of the Minister of Health of 8 February 2010 on list of hazardous substances together with their classification and marking (L.J. no. 27, item 140).

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP) – (art. 55, Annex VI, tab. 3.2), as amended.

Regulation of the Minister of Health of 5 March 2009 on marking of packaging for hazardous substances and preparations and selected chemical preparations (L.J. no. 53, item 439).

Regulation of the Minister of Environment of 23 April 2004 on establishing patterns of packaging (L.J. no. 94, item 927).

Regulation of the Minister of Health of 29 April 2010 on hazardous substances and preparations, whose packaging is provided with closures hindering their opening by children and warning on danger sensible by touching (L.J. no. 83, item 544).

Act of 27 April 2001 on waste (L.J. no. 62, item 628, as amended).

Act of 11 May 2001 on packaging and packaging waste (L.J. no. 63, item 638, as amended).

Regulation of the Minister of Health of 27 September 2001 on wastes catalogue (L.J. no. 112, item 1206).

Directive no. 75/442/EEC of the Council on wastes, Directive no. 91/689/EEC of the Council on hazardous wastes, Commission Decision no. 2000/532/EC of 3 May 2000 establishing a list of hazardous wastes, OJL 226/3 of 6 September 2000, together with amending decisions.

Act of 28 October 2002 on road transport of hazardous goods (L.J. no. 199, item 1671, as amended).

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

Declaration of the Government of 16 January 2009 on entering into force of amendments in Annexe A and B of European Agreement on international road transport of dangerous goods (ADR), drawn up in Geneva on 30 September 1957 (L.J. 27, item 162).

ADR Regulations – legal status as on 1 January 2009.

Regulation of the Minister of Labour and Social Policy of 29 November 2002 on highest permissible concentrations and intensities of agents and impacts hazardous to human health in the work environment (L.J. no. 217, item 1833, as amended).

Regulation of the Minister of Health of 1 December 2004 on carcinogenic or mutagenic impact of substances, preparations, technological agents or processes in the work environment (L.J. no. 280, item 2771, as amended).

Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the occurrence of chemical agents in the work environment (L.J. 11/2005, item 86 as amended).

Regulation of the Minister of Environment of 9 December 2003 on substances presenting specific hazards to the environment (L.J. 217, item 2141).

Chemical safety assessment:

Chemical safety assessment both for the mixture and substances present in the mixture has not been made.

SECTION 16: Other information

All the data presented herein are based on current status of our knowledge. The Safety Data Sheet has been developed on the basis of Product Data Sheet and data provided by the producer. Consumers of our products must take into consideration legal regulations and other arrangements in force.

Other sources of basic data used for preparation of this Safety Data Sheet:

- ♣ Computer Database RTECS (Registry of Toxic Effects of Chemical Substances), developed by National Institute for Occupational Safety and Health, 2005.
- ♣ Computer Database – Material Safety Data Sheets, Developed by Central Institute for Labour Protection – National Research Institute, 2005.
- ♣ Harmful agents and impacts in the work environment – permissible values – issued by Central Institute for Labour Protection – National Research Institute, 2005.
- ♣ Computer Database EINECS, 2005.
- ♣ Annex I to Regulation (EC) 453/2010 of 20 May 2010.

R- and H-phrases:

R43 – Can cause sensitization by skin contact;

H317 – Can cause allergic response of skin.

Description of used abbreviations, acronyms and symbols:

Xi – irritating product

Skin Sens. 1 – Sensitizing action to respiratory tract and skin cat. 1

Training:

Prior commencement of work with the product employees should attend mandatory training in connection with occurrence of chemical agents in the work environment. Risk assessment in the workstations, related to occurrence of chemical agents has to be performed and documented and its results communicated to the personnel.

MATERIAL SAFETY DATA SHEET
EASY PRINT Sn96,5/Ag3/Cu0,5

Basis of classification:

1. The product is subject to Xi; R43 classification, according to classification criteria, concentration limit and share of rosin in the preparation (Xi; R43: C \geq 1%, Xi; R43 mandatory).
2. Phrases S2 and S46 are not applicable, because the preparation is not intended for sale to ordinary consumers.

It is required to inform Inspector for Chemical Substances and Preparations on marketing of the preparation in territory of the Republic of Poland, according to provisions of Art. 23 of the Act of 11 January 2001 on chemical substances and preparations (L.J. 11/2001, item 84 as amended), because the preparation is classified as hazardous.