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Material Safety Data Sheet

Report No...... : WTD24F08186635C

Applicant..... : Shenzhen Atten Technology Co., Ltd

Address..... : 7-8F, Block B, Konka Guangming Technology Center,
No.288 Xingxin Road, Guangming Street, Guangming
District, Shenzhen, China

Manufacturer..... : Shenzhen Atten Technology Co., Ltd

Address..... : 7-8F, Block B, Konka Guangming Technology Center,
No.288 Xingxin Road, Guangming Street, Guangming
District, Shenzhen, China

Sample Name..... : Solder Paste

Sample Model..... : AT-H20, AT-H40,AT-H60

Date of Issue..... : 2024-08-26

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Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink Machinery City, Xingye 4 Road, Guanglong Industrial Park, Chihua Neighborhood Committee, Chencun Town, Shunde District, Foshan, Guangdong, China
Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Signed for and on behalf of
Waltek Testing Group (Foshan) Co., Ltd.

Swing Liang

Swing.Liang



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Section 1 – Chemical Product and Company Identification

Product Name: Solder Paste

Tel: 0755-86021337

Contact: Junlin Liu

Email: qad3@atten.com.cn

Fax: /

Emergency phone number: 0755-86021337

Section 2 – Hazards Identification

Classification according to Regulation European Commission No 1272/2008 and (EU) No 2020/878:



GHS07 Irritating, sensitizing

Skin Sens. 1

H317, May cause skin irritation

Eye Irrit. 2

H319, Causing severe eye irritation

STOT SE 3

H336, May cause drowsiness or dizziness



GHS02 Highly Flammable

Flam. Liq. 2,

H225, Highly flammable liquids and vapors

Hazard category: Under normal circumstances, the product is stable and harmless.

Signal word(s): Danger! Warning!

Invasion way: Skin contact, eye contact, inhalation, ingestion.

Results of acute exposure: Acute poisoning mostly occurs orally. Generally can be divided into four stages of excitement, hypnosis, anesthesia, asphyxia. Patient enters the third or fourth stage with loss of consciousness, dilated pupils, irregular breathing, shock, heart failure, and respiratory arrest

Chronic effects: Long-term exposure to high concentrations of this product during production can cause irritation of the nose, eyes, and mucous membranes, as well as headaches, dizziness, fatigue, irritability, tremors, nausea, etc.



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Health hazards: Skin touch: Contact with the product at normal temperature is not harmful to health, and exposure to high temperature combustion products may cause skin irritation.

Eyes touch: Under normal circumstances, no contact with the eyes. Exposure to high temperature combustion products can cause irritation and may even damage the eyes.

Inhalation: Under normal circumstances, it will not be inhaled. If high temperature combustion products are inhaled, it may cause irritation of the respiratory tract.

Ingestion: If eaten by mistake, it may cause irritation and damage to the mouth and digestive tract.

Other hazard: None

Section 3 – Composition/information on Ingredient

Substances

Admixture

Composition:

| | Chemical Name | Content (%) | CAS No. |
|--------------|--|-------------|------------|
| Solder Paste | zinc,benzenesulfinate | 1.2-1.6 | 24308-84-7 |
| | Sodium,2-[2-[4-(2,4,4-trimethyl pentan-2-yl)phenoxy]ethoxy]ethanesulfonate | 0.5-1.5 | 3013-94-3 |
| | [3-(3-dodecylsulfanylpropanoyl oxy)-2,2-bis(3-dodecylsulfanyl propanoyloxymethyl)propyl] 3-dodecylsulfanylpropanoate | 0.2-0.5 | 29598-76-3 |
| | 1,1',1'',1'''-(1,2-Ethanediyldinitri lo)tetra(2-pentanol) | 0.1-0.2 | 86443-82-5 |
| | Rosin  | 2.0-6.0 | 8050-09-7 |
| | Skin Sens. 1, H317, GHS07, Wng | | |
| | Nickel dibutyl dithiocarbamate | 1.5-3.5 | 13927-77-0 |
| Propan-2-ol | 80.0-92.5 | 67-63-0 | |



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| | | |
|--|--|--|
|  Flam. Liq. 2, H225, GHS02 | | |
|  Eye Irrit. 2, H319, GHS07 STOT SE 3, H336, Dgr | | |

Note: This ingredient list information is provided by the customer.

Section 4 – First Aid Measures

Skin touch: Remove contaminated clothing and rinse quickly with plenty of soapy water. Seek medical attention.

Eyes touch: In case of the sample contact with eyes, rinse immediately with plenty of water. Have the victims remove contact lenses if he is wearing them before rinsing. Do not let the victims rub his eyes. Get medical aid.

Inhalation: Remove the victims to the fresh air and keep the respiratory tract smooth. Use oxygen if breathing is difficult. Get medical aid.

Ingestion: If accidentally eat the product, rinsing mouth with water. Never give anything by mouth to an unconscious person. Get medical aid.

Section 5 – Fire Fighting measures

Extinguishing media: Misty water, foam, dry powder, CO₂, etc.

Danger characteristic: Stable at room temperature.

Hazardous combustion products: Carbon monoxide, carbon dioxide, etc.

Fire extinguishing method: The staff must be equipped with filter gas masks or self-contained breathing devices, and wear clothing that can protect against fire and toxic gases. Put out the flames upwind. At the scene of a fire, spray water on the fire point to reduce the temperature until the fire is completely extinguished.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing the sample vapours, mist or gas. Ensure adequate

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ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environmental procedures: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Urgent processing: Removal method: Evacuate the contaminated area personnel to the safety zone, prohibit irrelevant personnel to enter the contaminated area, cut off the fire source. Ensure adequate ventilation. Transfer solid waste to suitable containers.

Preventive measures for secondary procedures: Ensure adequate ventilation. Collect the waste in proper close containers.

Reference to other sections: For disposal see section 13.

Section 7 – Handling and storage

Precautions for safe handling: Operators must be trained technically and comply with the operation procedures strictly. Keep away from heat source and open flame. Equip with corresponding varieties and number of fire equipment and emergency equipment.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry, dark, well-ventilated area. Separated from oxidant, acid and alkali. Equip with corresponding varieties and number of fire equipment and emergency equipment.

Section 8 – Exposure controls, Personal Protection

Control parameters: No information is available.

Monitoring Method: No information is available.

Engineering Control: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory Protection: Generally, no special protection is required. Filter-type gas masks (half-masks) can be worn when exposed to high concentrations.

Eyes Protection: Generally, no special protection is required.

Body protection: General protection and hygiene measures. Follow general precautions for handling chemicals. Stay away from food, drinks and food. Avoid eye contact.

Personal Protection: General protection and hygiene measures. Follow the general precautions for handling chemicals. Stay away from food, drink and food. Avoid contact with eyes.

Other Protections: None

Section 9 – Physical and Chemical Properties

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Appearance: Solid

Colour: No information is available.

Odour: Tasteless

pH Value: No information is available.

Boiling point: No information is available.

Melting Point: No information is available.

Flashpoint: No information is available.

Density: No information is available.

Upper Explosive Limit (%) : No information is available.

Lower Explosive Limit (%) : No information is available.

Oxidising properties: No information is available.

Vapour pressure: No information is available.

Solubility in water: No information is available.

Partition coefficient (n-octanol / water): No information is available.

Viscosity: No information is available

Vapour density: No information is available

Evaporation rate: No information is available

Ignition temperature: No information is available.

Section 10 – Stability and Reactivity

Reactivity: Stable at room temperature.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No information is available.

Conditions to avoid: Moisture-proof.

Incompatible materials: Strong oxidants, acids, anhydrides, halogens.

Hazardous decomposition products: No information is available.

Section 11 – Toxicological Information

Acute Toxicity: LD50:5000mg/kg (rat oral); 3600mg/kg (mouse oral); 6410mg/kg (rabbit through mouth); 12800mg/kg (rabbit transdermal) (Propan-2-ol).

Sub-acute and Chronic Toxicity: Rats were inhaled 0.27ppm for 24h every day for 3 months, and no abnormality was found. 1.0ppm, 24h per day, 3 months, abnormal kidney and liver function; 8.4ppm for 24h

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per day for 3 months, severe kidney and liver injury (Propan-2-ol).

Irritation: Eye (rabbit): 0.1 ml (24 h)-moderate(zinc, benzenesulfinate); Rabbit percutaneous: 500mg, mild irritation. Rabbit transocular: 100mg (24h), moderate stimulation (Propan-2-ol).

Sensitization: No information is available.

Mutagenicity: Cytogenetic analysis: Saccharomyces cerevisiae 200mmol/ tube (Propan-2-ol).

Carcinogenicity: No information is available.

Reproductive toxicity: No information is available.

Specific target organ toxicity - single exposure: No information is available.

Specific target organ toxicity - repeated exposure: No information is available.

Aspiration hazard: No information is available.

Others: None

Section 12 – Ecological Information

Eco-toxicity: LC50: > 100 mg/l (96 h) (fish), and the EC50: > 100 mg/l (72 h) (algae and other aquatic plants), and the EC50:5.9 mg/l (48 h) (crustacea), NOEC (ECx) : <1mg/l (72h)(algae or other aquatic plants)(zinc, benzenesulfinate); EC50: 10-20mg/l (72h)(algae or other aquatic plants),EC50: 4.5mg/l (48h)(Crustaceans),EC50: 0.031mg/l(96h)(algae or other aquatic plants),EC0(ECx): 2.15 mg/l (48 h) (crustacea), LC50:1.5 mg/l (96 h) (fish) (Rosin); LC50: 750~1650mg/L (96h) (Brown shrimp with round belly); 11130mg/L (48h) (Blackhead nerds, static) (Propan-2-ol).

Persistence and degradability: Persistence: High(Water/soil; High(air)(Rosin); Degradability: Aerobic biodegradation (h) : 24~168, anaerobic biodegradation (h) : 96~672; Non-biodegradability, photooxidation half-life (h) in water: 4726~1.90×10⁵, photooxidation half-life (h) in air: 6.2~72 (Propan-2-ol).

Bioaccumulative potential: High (LogKOW = 6.4607) (Rosin).

Mobility in soil: low (Log KOC = 21990) (Rosin).

Results of PBT and vPvB assessment: No information is available.

Endocrine disrupting properties: No information is available.

Other adverse effects: None

Section 13 – Disposal Considerations

Nature of waste: Please refer to relevant national and local regulations before disposal.

Waste disposal methods: National or local regulations should be referred to before disposal. Hazardous waste, recycled or incinerated under controlled conditions. Empty drums should be recycled, recycled or disposed of by a qualified or licensed institution.

Attention abandoned: Undiluted product cannot enter the sewer system.

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Section 14 - Transport information

UN Number: No information is available.

Class: No information is available.

Packing group: No information is available.

Proper shipping name: Solder Paste

Packaging Mark: No information is available.

Packaging Method: Sealed airtight packing

Transport Fashion: By sea, by road, by air, by railway.

Transport Attentions: Examine whether the packages are integrate and sealed or not before transport. No collapse, no fall or no damage during the course of transportation. Prevent the product from exposing to the sun, the rain and high temperature. Stopovers should be away from fire and heat sources. It is strictly prohibited to mix and transport with oxidants and acids. When shipping, it should be isolated from the engine room, power source and fire source. When transporting by road, follow the prescribed route.

Section 15 – Regulatory Information

Regulatory Information:

ISO 11014-2009 Safety data sheet for chemical products – Content and order of sections.

REGULATION (EC) No 1272/2008 and (EU) 2020/878 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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

The international Maritime Dangerous Goods (IMDG) Code (41-22)

International Air Transport Association (IATA) Dangerous Goods Regulations 65th, 2024

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

The Regulations Concerning the International Transport of Dangerous Goods by Rail (RID)

U.S. Department of Transportation (DOT)

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Section 16 – Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the

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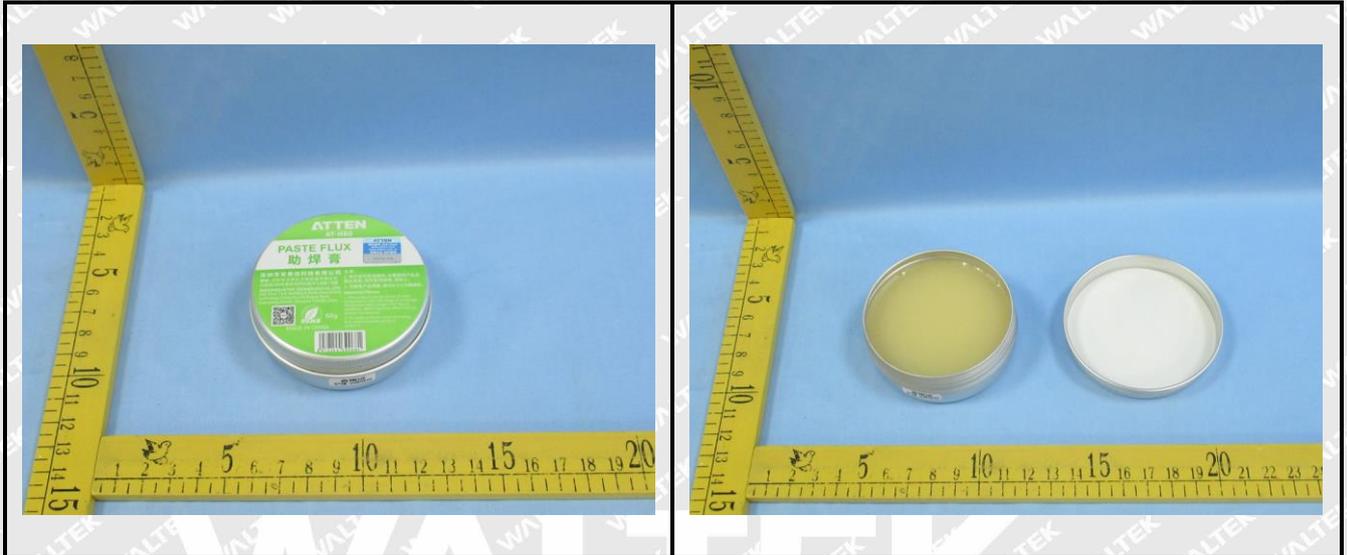
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