



TEST REPORT

LAB NO. : (3224)065-0229
DATE : Mar. 8, 2024
PAGE : 1 OF 11

Applicant:

NINGBO ZHONGDI INDUSTRY & TRADE CO.,LTD

JISHIGANG INDUSTRY ZONE, HAISHU DISTRICT, NINGBO 315171, P. R. CHINA

Date of Submission: 2024-03-04

Test Period: 2024-03-04 to 2024-03-07

Sample Description:	Soldering Paste		
Sample Status:	Intact		
Manufacturer:	/	Buyer:	/
Style No.(s):	ZD-170	PO No.:	/
Country of Origin:	/	Country of Destination:	/
Color:	/	Vendor:	/

Test Item(s): Details see attached page(s).

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
*As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878, (EC) No 1272/2008 and are provided per attached.	SEE RESULT

Note: The tested part of the sample was specified by client.
The test conclusion was given based on the results of tested part.
With the client's prior consent ,the above * was subcontracted test item.

REMARK

If there are questions or concerns on this report, please contact the following persons:

Customer service

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Photo of the Submitted Sample



32240650229

TEST RESULT

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
 - **Trade name:** Soldering Paste
 - **Product code:** ZD-170
 - **Registration number:** Data not available
- **1.2 Relevant identified uses of the substance or mixture and uses advised against on**
 - **Application of the substance/ mixture:** Soldering.
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Ningbo Zhongdi Industry & Trade Co.,Ltd
Jishigang Industry Zone, Haishu District, Ningbo 315171, P. R. China
Tel: +86-574-88036106
Fax: Data not available
Email: Data not available
 - **Only Representative/other EU contact point:** Information not available
 - **Further information obtainable from:** Ningbo Zhongdi Industry & Trade Co.,Ltd
- **1.4 Emergency telephone number**
General in EU
Tel: 112 (Available 24 hours a day)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
Classification according to regulation (EC) 1272/2008:



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage



GHS07 Exclamation mark

STOT SE 3 H335 May cause respiratory irritation



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects

- **Classification system:**

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.



- **2.2 Label elements**
- **Labeling according to Regulation (EC) No 1272/2008:** The product is labeled according to CLP regulation.
- **Hazard pictograms:**



GHS05 GHS07 GHS09

- **Signal word:** *Danger*

- **Hazard statements:**

H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation
H411 Toxic to aquatic life with long lasting effects

- **Precautionary statement:**

P260 Do not breathe dust/vapor.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local regulation.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterization:** Mixture

- **Description:**

Mixture of the substances listed below with nonhazardous additions; For the wording of the listed risk phrases refer to section 16.

• Component:		
CAS No.: 8009-03-8 EC No.: 232-373-2 Index No. 649-254-00-X	Vaseline The full reefing history is known and it can be shown that the substance from which it is produced is not a carcinogen.	80%
CAS No.: 7646-85-7 EC No.: 231-592-0 Index No.: 030-003-00-2	Zinc Chloride ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; STOT SE 3, H335(C ≥ 5 %); ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	20%



SECTION 4: First aid measures

• 4.1 Description of first aid measures

General advice: If feel unwell, get medical advice/attention.

After inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell.

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.. If eye irritation persists: Get medical advice/attention.

After swallowing: Wash mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

• 4.2 Most important symptoms and effects, both acute and delayed: Causes severe skin burns and eye damage; May cause respiratory irritation.

• 4.3 Indication of any immediate medical attention and special treatment needed: Treatment according to symptoms, no known specific medicine.

SECTION 5: Fire-fighting measures

• 5.1 Extinguishing media

• Suitable extinguishing agents: CO₂, chemical dry powder, water spray, foam or sandy clay.

• 5.2 Special hazards arising from the substance or mixture: Carbon monoxide, carbon dioxide and hydrogen chloride may be formed during combustion.

• 5.3 Advice for firefighters

Protective equipment: Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures:

Cut off leakage source and collect spillage timely if safe to do it; Ensure adequate ventilation; Avoid breathing dust/ vapor; Use personal protective equipment; Avoid contact with the skin and eyes; Avoid release to the environment.

• 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

• 6.3 Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal; Dispose contaminated material as waste according to section 13.

• 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.



SECTION 7: Handling and storage

• **7.1 Precautions for safe handling:**

Use personal protective equipment; Ensure good ventilation/ exhaust at the workplace; Avoid breathing vapour; Prevent contact with eyes and skin; Avoid release to the environment.

• **Information about fire and explosion protection:** Keep away from heat, sparks, open flames and hot surfaces; Avoid all sources of ignition.

• **7.2 Conditions for safe storage, including any non-compatibility**

• **Requirements to be met by storerooms and receptacles:** Store in a cool, dry and well-ventilation location.

• **Information about storage in one common storage facility:** Keep away from sources of heat and ignition.

• **Further information about storage conditions:** Keep container tightly closed and sealed.

• **7.3 Specific end use(s):** Soldering.

SECTION 8: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
7646-85-7 Zinc Chloride (20%)		
Finland	1mg/m ³	-

• **DNELs:**

DNEL type		DNEL worker value	DNEL consumer value
8009-03-8 Vaseline			
Systemic effects	Long-term, inhalation exposure	2.73 mg/m ³	-
	Long-term, dermal exposure	5.81 mg/kg bw/day	-
	Long-term, oral exposure	-	740 µg/kg bw/day
7646-85-7 Zinc Chloride			
Systemic effects	Long-term, inhalation exposure	1 mg/m ³	1.25 mg/m ³
	Long-term, dermal exposure	8.3 mg/kg bw/day	8.3 mg/kg bw/day
	Long-term, oral exposure	-	830 µg/kg bw/day

• **PNECs:**

PNEC type	Value
7646-85-7 Zinc Chloride	
Freshwater	20.6 µg/L
Marine water	6.1 µg/L
Sewage treatment plant (STP)	100 µg/L
Sediment (freshwater)	117.8 mg/kg sediment dw
Sediment (marine water)	56.5 mg/kg sediment dw

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

• **8.2 Exposure controls**

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; Take off contaminated clothing and wash it before reuse; See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Respiration protection:** Use positive pressure breathing mask if concentrations in air could exceed occupational



exposure standard.

• **Protection of hands:**



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

• **Eye protection:**



Safety glasses

Protective goggles with side-shields.

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• **Appearance:**

Form	Paste
Color	Brown
Odor	Odorless
Odor threshold	Not applicable
• pH-value	Not determined

• **Change in condition**

Melting point/melting range	Not determined
Boiling point and boiling range	Not applicable
• Freezing point	Not determined
• Flash point	>93
• Flammability(solid, gas)	Not applicable
• Decomposition temperature	Not determined
• Self-ignition	Not determined
• Danger of explosion	Not determined

• **Explosion limits**

Lower:	Not determined
Upper:	Not determined
• Oxidizing properties	Not determined
• Vapor pressure	Not determined
• Density	Not determined
• Relative density	Not determined
• Vapor density	Not determined
• Evaporation rate	Not determined

• **Solubility in/Miscibility with**

Water	Not determined
• Partition coefficient (n-octanol/water)	Not determined
• Viscosity	
Dynamic	Not determined
Kinematic	Not determined



• **9.2 Other information** Data not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No decomposition if used according to specification.
- **10.2 Chemical stability:** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions:** No further relevant information available.
- **10.4 Conditions to avoid:** Heat/sparks/open flames/hot surfaces.
- **10.5 Incompatible materials:** Strong oxidizing agents; Chlorine; Sulfides; Powdered zinc.
- **10.6 Hazardous decomposition products:** No further relevant information available.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** No animal test has been done for this product or the components.

7646-85-7 Zinc Chloride

Guinea pig	LD50-oral	200mg/kg
Rat	LD50-oral	350mg/kg
Mouse	LD50-oral	329mg/kg

Remark: All the above data are from literature.

- **Skin corrosion/irritation:** Causes severe skin burns and eye damage.
- **Serious eyes damage/ irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **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:** May cause respiratory irritation.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Toxic to aquatic life with long lasting effects.

8009-03-8 Vaseline

Short-term toxicity to fish	LL50 (4 days) 100 mg/L
Short-term toxicity to aquatic invertebrates	LL50 (4 days) 10 g/L EL50 (48 h) 10 g/L
7646-85-7 Zinc Chloride	
Short-term toxicity to fish	LC50 (4 days) 112 - 2 920 µg/L
Long-term toxicity to fish	NOEC (84 days) 720 µg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 155 - 2 909 µg/L LC50 (48 h) 95 - 1 220 µg/L
Long-term toxicity to aquatic invertebrates	NOEC (3 months) 300 µg/L
Toxicity to aquatic algae and cyanobacteria	IC50 (72 h) 136 - 150 µg/L



	NOEC (4 days) 20 µg/L
Toxicity to microorganisms	EC50 (3 h) 5.2 mg/L IC50 (4 h) 350 µg/L NOEC (4 h) 100 µg/L
<ul style="list-style-type: none">• 12.2 Persistence and degradability: Readily degradable.• 12.3 Bio-accumulative potential: High bio-accumulative.• 12.4 Mobility in soil: Low mobility in soil.• 12.5 Results of PBT and vPvB assessment PBT: Not applicable vPvB: Not applicable• 12.6 Other adverse effects: No further relevant information available.• 12.7 Additional ecological information• General notes: Water hazard class 2 (German Regulation) (self-assessment): Hazard to waters. Do not allow the product to reach ground water, water course or sewage system.	

SECTION 13: Disposal consideration

- **13.1 Waste treatment methods**
- **Recommendation:** Must not be disposed together with household garbage. Avoid disposing into drainage systems and into the environment.
- **13.2 Un-cleaned packaging**
- **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

	Land transport(ADR/RID)	Sea transport(IMDG)	Air transport(ICAQ/ IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard class	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated



SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK (German Maximum Workplace Concentration):** None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances-ANNEX I:** None of the ingredients is listed.
- **Seveso category:** E2 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements:** 200 ton(net)
- **Qualifying quantity (tonnes) for the application of upper-tier requirements:** 500 ton(net)
- **National regulations.**
- **Water hazard class:** Water hazard class 2 (German Regulation) (self-assessment): Hazard to waters.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** None of the ingredients is listed.
- **REACH Regulation Annex XVII Restriction:** None of the ingredients is listed.
- **REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

Relevant phrases:

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY:

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)



**BUREAU
VERITAS**

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PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

IC50: Half maximal inhibitory concentration

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

LL50: Lethal loading rate, 50 percent

EL50: Effective loading rate, 50 percent

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Corr. 1B: Skin corrosion/irritation, hazard category 1B

STOT SE 3: Specific target organ toxicity after single exposure, hazard category 3

Aquatic Acute 1: Hazardous to the aquatic environment- acute toxic, hazard category 1

Aquatic Chronic 1: Hazardous to the aquatic environment- chronic toxic, hazard category 1

Aquatic Chronic 2: Hazardous to the aquatic environment- chronic toxic, hazard category 2

End of safety data sheet

END