

EC360® Ruby Thermal Paste Safety Datasheet (SDS)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 1st Oct 2024

Section 1: Identification of the substance and company undertaking

1.1 Product identifier

Commercial Name: EC360® Ruby Synonyms: Thermal Compound

Product name	ltem No	EAN
EC360® RUBY 13.4W/mK Thermal Paste (1g)	EC360T010	0675834582376
EC360® RUBY 13.4W/mK Thermal Paste (4g)	EC360T011	0675834582383
EC360® RUBY 13.4W/mK Thermal Paste (20g)	EC360T012	0675834582390

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the product: Electrical industry and electronics

Uses advised against: None known

1.3 Details of the supplier of the safety data sheet

Company:

Jaden Technologies GmbH Augustastr. 19 47198 Duisburg Germany

Email: sales@extremecool360.com

1.4 Emergency telephone number



English: +49 20664609360 German: +49 20664609360

Section 2: Hazards identification

2.1 Classification of the substance or mixture

CLP classification - Regulation (EC) No. 1272/2008

Health hazards

H302 Harmful if swallowed H320 Causes eye irritation H332 Harmful if inhaled

Environmental hazards

H413 May cause long lasting harmful effects to aquatic life

Other

P102 Keep out of reach of children

2.2 Label elements

GHS pictogram:



Signal word:

Danger

Danger warnings:

H302 Harmful if swallowed H320 Causes eye irritation H332 Harmful if inhaled



H413: May cause long lasting harmful effects to aquatic life

Safety instructions:

P102 Keep out of reach of children
P273 Avoid release to the environment

2.3 Other hazards

No other hazards are known.

Section 3: Composition / Information on Ingredients

3.1 Mixtures

Description:

Silicone compound

Name	CAS-No	Conc. (% w/w)	Classification
Polydimethylsiloxane	63148-62-9	14	H302 Harmful if swallowed
Zinc oxide	1314-13-2	26	H320 Causes eye irritation H332 Harmful if inhaled
Aluminium oxide	1344-28-1	53	H413 May cause long lasting harmful effects to aquatic life
Silica powder	7440-21-3	7	P102 Keep out of reach of children

CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

Section 4: First Aid Measures

4.1 Description of first aid measures



Flush eyes with water for 15 minutes. **Eye contact:**

Get medical attention if symptoms occur.

Wash with water and soap. Skin contact:

Get medical attention if symptoms occur.

Inhalation: Remove to fresh air.

Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly with water.

Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively. For further information contact Jaden Technologies GmbH.

Section 5: Firefighting Measures

5.1 Extinguishing Media

Extinguishing Media: Small fires: Carbon Dioxide (CO2), Dry Chemical,

Water spray.

Large fires: Dry Chemical, Alcohol-resistant foam,

Water spray.

Unsuitable Media: None known

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting:

Exposure to combustion products may be a hazard to

health.



Hazardous combustion products:

Carbon oxides and traces of incompletely burned

carbon compounds

Silicon dioxide Metal oxides Formaldehyde

5.3 Advice for firefighters

Fire Fighting Instructions: Use extinguishing measures that are appropriate to

local circumstances and surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from the fire area if it

is safe to do so.

Determine the need to evacuate or isolate the fire area according to your local emergency plan.

Protective Equipment: Wear self-contained breathing apparatus for

firefighting. Use protective clothing.

NFPA Fire: 0

NFPA Health: 1

NFPA Reactivity: 0

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Wear proper protective equipment. Avoid eye contact. Do not swallow.

6.2 Environmental precautions

Environmental Precautions: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers

6.3 Methods and materials for containment and cleaning up



Methods for Containment: Scrape up and place in a container fitted with a lid.

Methods for Cleanup: lean area as appropriate since spilled materials, even

in small quantities, produce a slippery surface. Final phase of cleaning may require steam, solvent or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Determine and follow applicable

laws and regulations for disposal.

6.4 Reference to other sections

Other Spill Precautions: Determine the applicable laws and regulations for

disposal and follow them. For more information on

disposal, see section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Handling: General ventilation is recommended. Local

ventilation is recommended. Avoid eye contact. Do not swallow. Do not breath. Do not empty into drains. Wash hands after handling, especially before eating, drinking and smoking, exercise good industrial

hygiene practice.

Hygiene Practices: Wash hands after handling, especially before eating,

drinking and smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Do not store with oxidizing agents. Storage

temperature: - 25 °C to 50 °C

Unsuitable packaging

materials:

None known



7.3 Specific end use(s)

See Technical Datasheet, which is available upon request.

Section 8: Exposure Controls / Personal Protection

8.1 Control parameters

Name	CAS-No	Exposure Limits
Treated filler	-	Observe zinc oxide limits. OSHA PEL (final rule): TWA 15 mg/m³ Total dust 5 mg/m³ respirable fraction. ACGIH TLV: TWA 10 mg/m³ total dust.

8.2 Exposure Controls

Appropriate engineering

controls:

Ventilation: Refer to Section 7.1.

Respiratory protection: Suitable respiratory protection should be worn if the

product is used in large quantities, confined spaces

or in other circumstances if the OEL may be exceeded. Depending on the working conditions, wear a respiratory mask with a filter(s) A or use a self-contained respirator. The choice of filter depends on the amount of chemical being handled in the place of work. Contact your respiratory protection supplier

regarding filter characteristics.

Skin Protection: Protective equipment is not normally required, wash

hands after handling.

Eye/face protection: Use proper protection, safety glasses are a

requirement.

Hygiene Practices: Exercise good industrial hygiene practice. Wash



hands after handling, especially before eating, drinking and smoking.

Limitation and monitoring of environmental exposure:

See section 6 and section 12.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State: Paste

Colour: Grey

Odour: None

Melting point/freezing

point:

Not determined

Boiling point or initial boiling point and boiling

range:

Not determined

Flammability: Flame resistant

Lower explosion limit: Not determined

Upper explosion limit: Not determined

Flash point: > 260 °C (Seta Closed Cup)

Auto-ignition temperature: Not determined

Decomposition

temperature:

Not determined

pH: Not determined

Kinematic viscosity: Not determined

Solubility Not determined

Partition coefficient n-

octanol/water (log value):

Not determined

Vapor pressure: Not determined

Density: 2.5 g/cm³



Relative vapour density: Not determined

Evaporation Rate: Not determined

Percent Volatile: Not determined

VOC Content: Not determined

Odor Threshold: Not determined

Oxidizing Properties: Not determined

Explosive Properties: Not determined

9.2 Other information

Appearance: Paste

Section 10: Stability and Reactivity

10.1 Reactivity

Reactivity: None known.

10.2 Chemical stability

Chemical Stability: Stable under recommended handling and

storage conditions

10.3 Possibility of hazardous reactions

Hazardous polymerization: Hazardous polymerization will not occur.

10.4 Conditions to avoid

Conditions to Avoid: None known.



10.5 Incompatible materials

Incompatible Materials: Can react with strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous Decomposition: Carbon oxides and traces of incompletely

burned carbon compounds, silicon dioxide,

metal oxides, formaldehyde.

No significant effects expected from a single short-term

Section 11: Toxicological Information

Pre-Existing

Conditions
Aggravated by

Exposure:

Acute Inhalation

Effects:

None generally recognized.

exposure

Acute Skin Effects: No significant irritation expected from a single short-term

exposure.

Acute Ingestion

Effects:

Low ingestion hazard in normal use.

Acute Eye Effects: Direct contact may cause mild irritation.

Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity: Toxic to aquatic organisms and may cause long-term

adverse effects in the aquatic environment. However, due to the physical form and water-insolubility of the product the

bioavailability is negligible.

Environmental

Stability:

No data available for this product.



12.2 Persistence and degradability

Solid material, insoluble in water. No adverse effects are predicted.

12.3 Bioaccumulative potential

Bioaccumulation: No data available for this product.

12.4 Mobility in soil

No further information available

12.5 Results of PBT and vPvB assessment

No further information available

12.6 Endocrine disrupting properties

No further information available

12.7 Other adverse effects

No further information available

Section 13: Disposal considerations

13. Waste treatment methods

Product Disposal: This material must be disposed of as hazardous waste

Packaging Disposal: Dispose of in accordance with Local regulations.

According to the European Waste Catalogue, waste codes are application specific and not related to specific products. Waste codes should be assigned by the user, preferably in dialog with the waste disposal authorities.



Section 14: Transport Information

UN Number: N/A

UN Proper Shipping Name: Non-Hazardous Heat Sink Compound

• Transport Hazard Class: Non-Hazardous

Environmental Hazards (Marine Pollutant): No

Transport in Bulk: Yes

Special Transport Precautions: N/A

 Not a hazardous material for DOT, TDG classification, ADR/RID, IMDG, and IATA-DGR shipping.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations / legislation specific for the product

Regulatory - Product

None

Based SARA:

Regulatory - Ingredient

None

Based:

Canada DSL: All ingredients listed or exempt.

IECSC: All ingredients listed or exempt.

EINECS: Not determined.

TSCA Inventory Status: All chemical substances in this material are included on

or exempted from listing on the TSCA Inventory of

Chemical Substances

AICS: One or more ingredients are not listed or exempt.

15.1 Chemical Safety Assessment

No chemical safety assessment has been carried out by the supplier for this substance/mixture.



Section 16: Other Information

Disclaimer:

This product and safety datasheet has been created in accordance with Article 31 and Annex II of the EU REACH regulations, as well as their relevant supplements and updates, considering all applicable laws, regulations, and guidelines for the classification, packaging, and labeling of hazardous substances and mixtures.

It is solely the responsibility of the individuals receiving this product safety datasheet to ensure that the information contained therein is read and understood by all persons who use, transport, dispose of, or may come into contact with the product in any way.

If the recipient subsequently creates a mixture containing the EC360 product, it is their sole responsibility to ensure that the transfer of all relevant information from the EC360 product safety datasheet to their own safety datasheets is accurately conducted, in accordance with Article 31 and Annex II of the EU REACH regulations.

All information and instructions in this product safety datasheet (also known as safety data sheet or SDS) are based on the current state of scientific knowledge and the latest technical standards at the time printed on this SDS. Jaden Technologies GmbH cannot be held liable for any defects mentioned in this SDS, provided that the presence of such defects cannot objectively be determined considering the current scientific and technical capabilities.

As mentioned above, this SDS has been created in accordance with the applicable European laws. If you have purchased this material outside of Europe, where the applicable laws may differ from European laws, please obtain a specific SDS for the country where the product is sold and used from your local EC360 supplier.

Please note that the layout and content of different SDS may vary between countries, even for the same product, as they must comply with the respective applicable legal requirements.

If you have any further questions, please contact your local EC360 supplier.

Source of information: Internal data and publicly available information.