

# EC360® GLUE Thermal Glue

## Material Safety Datasheet (MSDS)

Date: 06-Mar-2020

### Section 1: Identification of the Product and of the Company

#### 1.1 Product Identifier

Commercial Name: EC360® GLUE

Variation	MPN	EAN	Variation	MPN	EAN
10g Tube	EC360G001	0716073556916	30g Tube	EC360G002	0716073556947

#### 1.2 Relevant identified Uses of the Product and Uses Advised Against

Use of the product: Electrical industry and electronics

Uses advised against: None known

#### 1.3 Details of the Company Supplying the Material Safety Datasheet

Jaden Technologies GmbH  
Augustastr. 14  
47198 Duisburg  
Germany  
Email: sales@extremecool360.com

#### 1.4 Emergency Telephone Number

English: +49 20664609360

German: +49 20664609360

### Section 2: Hazards Identification

#### 2.1 Dangerous Goods Classification

Not applicable

#### 2.2 Chemical Classification

Non-dangerous chemical goods

#### 2.3 Hazard Classification

Not classified as hazardous goods.

## Section 3: Composition / Information on Ingredients

### 3.1 Chemical Characterization

One-component silicone glue

### 3.2 Ingredients

Name	CAS-No	Conc. (% w/w)	Classification
Polydimethylsiloxane	70131-67-8	60 - 90	
Silicone	63148-62-9	0.5 - 2	
Silicon dioxide	112926-00-8	5 - 30	
Silane coupling agent	-	0.05 - 0.2	

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 Protection

Wear protective clothing, glasses and gloves.

### 4.2 First Aid Measures

<b>Inhalation:</b>	Remove to fresh air. Supply oxygen if breathing difficulties occur. Get medical attention if symptoms occur. If respiratory arrest occurs, induce artificial respiration and immediately take to hospital.
<b>Skin contact:</b>	Remove clothing. Wipe residue with cloth or paper. Wash skin with water and soap. Wash contaminated clothing before use. Get medical attention if symptoms occur.
<b>Eye contact:</b>	Hold eyelids, flush eyes with water for more than 15 minutes. Get medical attention if symptoms occur.
<b>Swallowing:</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.

#### 4.3 Most Important Symptoms and Effects, Both Acute and Delayed

Strong skin and eye irritations.

#### 4.4 Indication of Immediate Medical Attention and Special Treatment needed

Treat symptomatically and supportively.

### Section 5: Firefighting Measures

#### 5.1 Extinguishing Media

**Suitable extinguishing media:** Small fires: Water spray, Carbon Dioxide (CO<sub>2</sub>), Alcohol-resistant foam, Dry Chemical

**Unsuitable extinguishing media:** None known

#### 5.2 Special Hazards Arising from the Product

**Specific hazards during firefighting:** Exposure to combustion products may be a hazard to health. In a fire, closed containers may explode.

**Hazardous combustion products:** Combustion and decomposition products of siloxanes and other organic materials may be harmful.

#### 5.3 Advice for Firefighters

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting, face shielding and protective clothing.

**Specific extinguishing methods:** 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.

### Section 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear proper protective equipment. Avoid eye contact. Do not swallow.

## 6.2 Environmental Precautions

Prevent from spreading or entering into drains, ditches or rivers by using vermiculite or similar materials to absorb the spillage. Wash any remaining residue with soap and water. Create a safety zone to prevent contact of the substance with fire.

## 6.3 Methods and Materials for Containment and Cleaning Up

Scrape up and place in a container fitted with a lid. Clean area as appropriate since spilled materials, even in small quantities, produce a slippery surface. Dispose of saturated absorbent or cleaning materials appropriately. Determine and follow applicable laws and regulations for disposal.

# Section 7: Handling and Storage

## 7.1 Safe Handling

General ventilation is recommended. Local ventilation is recommended. Workplace should be ventilated to prevent inhalation of vapors. Avoid eye contact. Do not swallow. Do not breath. Do not empty into drains. The product may cause skin / eye allergies and irritations avoid direct contact. It is recommended not to handle this product, if allergies exist. Wash hands after handling, especially before eating, drinking and smoking. Wear protective gloves, protective clothing and protective glasses.

## 7.2 Storage

Do not store with oxidizing agents. Keep container away from heat, sparks and flames. Do not store near food and eating utensils.

## 7.3 Unsuitable Packaging Materials

None known

# Section 8: Exposure Controls / Personal Protection

## 8.1 Exposure Controls

**Engineering Controls:** Ventilation: Refer to Section 7.1.

### **Personal protection equipment**

**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.
<b>Hand protection:</b>	Suitable gloves (plastic film or rubber) should be worn.
<b>Eye / face protection:</b>	Use safety glasses.
<b>Skin protection:</b>	Suitable gloves (plastic film or rubber) should be worn. Wear protective clothing.
<b>Hygiene measures:</b>	Exercise good industrial hygiene practice. Wash hands after handling, especially before eating, drinking and smoking.
<b>Additional information:</b>	These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.
<b>Environmental exposure controls:</b>	Refer to Section 6 and Section 12.

## Section 9: Physical and Chemical Properties

<b>Physical form:</b>	Paste
<b>Color:</b>	white
<b>Odor:</b>	Slight
<b>Acidity:</b>	Use safety glasses.
<b>Flash point:</b>	> 200 °C (Seta Closed Cup)
<b>Thermal decomposition:</b>	> 200 °C
<b>Vapor pressure:</b>	< 5mm (25 °C)
<b>Volatility:</b>	< 2 % (200 °C, 8hr)
<b>Specific gravity:</b>	1.25 g/cm <sup>3</sup>
<b>Solubility in water:</b>	Insoluble

## Section 10: Stability and Reactivity

### 10.1 Reactivity

None known.

## 10.2 Stability

Stable under normal usage conditions.

## 10.3 Possibility of Hazardous Polymerization

Hazardous polymerization will not occur.

## 10.4 Conditions and Materials to Avoid

Can react with strong oxidizing agents. Avoid contact with incompatible materials. Avoid contact with fire or heat.

## 10.6 Hazardous Decomposition Products

Dependent on different combustion conditions, the type and quantity of decomposition byproducts is variable.

# Section 11: Toxicological Information

## 11.1 Acute Toxicity

<b>Inhalation:</b>	Vapors may cause respiratory irritation. May induce allergic reactions to lung.
<b>Eye contact:</b>	May cause strong irritations to eyes. May cause blurred vision, burning and tearing.
<b>Skin contact:</b>	May induce allergic reactions to skin.
<b>Ingestion:</b>	Ingestion or swallowing is harmful and may cause internal injuries.

## 11.2 Chronic Toxicity

<b>Inhalation:</b>	Vapors may cause respiratory irritation. May induce allergic reactions to lung.
<b>Eye contact:</b>	May cause strong irritations to eyes. May cause blurred vision, burning and tearing.
<b>Skin contact:</b>	May induce allergic reactions to skin.
<b>Ingestion:</b>	Ingestion or swallowing is harmful and may cause internal injuries.

## 11.3 Other Health Effects

<b>Carcinogenic:</b>	IARC:Not listed
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## Section 12: Ecological Information

### 12.1 Ecotoxicity Effects

No relevant data.

### 12.2 Persistence and Degradability

Solid material, insoluble in water.

### 12.3 Release to Waters

Solid material, insoluble in water.

## Section 13: Disposal Considerations

### 13.1 Product Disposal

Dispose of in accordance with local regulations.

### 13.2 Packaging Disposal

Dispose of in accordance with local regulations.

## Section 14: Transport Information

### 14.1 Road / Rail

Not subject to regulations.

### 14.2 Sea transport

Not subject to IMDG code. With regard to transport the International Maritime Dangerous Goods (IMDG) Code (2016 Edition) is cited and considered.

### 14.3 Air transport

Not subject to IATA regulations. With regard to transport the International Air Transport Association (IATA) Dangerous Goods Regulations (60th Edition, 2019) are cited and considered.

## Section 15: Regulatory Information

### 15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Product

**IECSC:** All ingredients listed or exempt.

**EINECS:** All ingredients listed or exempt.

**TSCA:** 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.

## Section 16: Other Information

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. Jaden Technologies GmbH shall not be held responsible for any defect in the product covered by this Material Safety Data Sheet, should the existence of such a defect not be detectable considering the current state of scientific and technical knowledge.

It is the responsibility of persons in receipt of this Material Safety Data Sheet (MSDS) to review these recommendations in the specific context of handling, disposing or in any other way using the product and determine whether they are appropriate. If the recipient subsequently produces a formulation containing the product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this Material Safety Data Sheet to their own Material Safety Data Sheet in compliance with applicable laws and regulation.

This Material Safety Data Sheet has been prepared in compliance with European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive a Material Safety Data Sheet applicable to the country in which the product is sold and intended to be used from your local EC360 supplier. Please note that the appearance and content of the Material Safety Data Sheet may vary between different countries, reflecting different compliance requirements.