

## SAFETY DATA SHEET

### NON-SILICONE HEAT TRANSFER COMPOUND

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

##### 1.1. Product identifier

**Product name** NON-SILICONE HEAT TRANSFER COMPOUND

**Product number** HTC,EHTC35SL,EHTC700G,EHTC02S,EHTC10S,EHTC20S,EHTC01K,ZE

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

**Uses advised against** At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** ELECTROLUBE. A division of HK WENTWORTH LTD  
 ASHBY PARK, COALFIELD WAY,  
 ASHBY DE LA ZOUCH, LEICESTERSHIRE LE65 1JR  
 UNITED KINGDOM  
 info@hkw.co.uk  
 +44 (0)1530 419600  
 +44 (0)1530 416640

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Aquatic Chronic 1 - H410

**Classification (67/548/EEC or 1999/45/EC)** N;R50/53.

**Environmental** The product contains a substance which is very toxic to aquatic organisms.

##### 2.2. Label elements

###### Pictogram



**Signal word** Warning

**Hazard statements** H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.

##### 2.3. Other hazards

## NON-SILICONE HEAT TRANSFER COMPOUND

This substance is not classified as PBT or vPvB according to current EU criteria.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>ZINC OXIDE</b>		<b>60-100%</b>
CAS number: 1314-13-2	EC number: 215-222-5	REACH registration number: 01-2119463881-32-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Aquatic Acute 1 - H400	N;R50/53
Aquatic Chronic 1 - H410	

<b>DIPHENYLAMINE</b>		<b>&lt;1%</b>
CAS number: 122-39-4	EC number: 204-539-4	
M factor (Acute) = 1	M factor (Chronic) = 1	

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 3 - H301	T;R23/24/25 R33 N;R50/53
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
STOT RE 2 - H373	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments** No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** No unusual fire or explosion hazards noted.

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**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

### 7.3. Specific end use(s)

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### ZINC OXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup>

##### DIPHENYLAMINE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 20 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**Ingredient comments** No exposure limits known for ingredient(s).

### 8.2. Exposure controls

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### Protective equipment



#### Appropriate engineering controls

Not relevant.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Butyl rubber.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

#### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke.

#### Respiratory protection

Not applicable.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	White/off-white.
Odour	No characteristic odour.
Initial boiling point and range	> 250°C / > 482°F @
Flash point	230°C / 446°F CC (Closed cup).
Relative density	2.04 @ 20°C / 68°F
Solubility(ies)	Insoluble in water.
Auto-ignition temperature	425 (797F)°C

#### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 0 g/litre.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

## NON-SILICONE HEAT TRANSFER COMPOUND

**Possibility of hazardous reactions** Not applicable. Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation. Avoid freezing.

### 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Other health effects** There is no evidence that the product can cause cancer.

**Ingestion** May cause stomach pain or vomiting.

**Acute and chronic health hazards** No specific health hazards known. No specific acute or chronic health impact noted, but this chemical may still have adverse impact on human health, either in general or on certain individuals with pre-existing or latent health problems.

## SECTION 12: Ecological Information

**Ecotoxicity** Dangerous for the environment if discharged into watercourses.

### 12.1. Toxicity

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** The product contains substances which are insoluble in water and which sediment in water systems.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## NON-SILICONE HEAT TRANSFER COMPOUND

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	3077
UN No. (IMDG)	3077
UN No. (ICAO)	3077

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE, DIPHENYLAMINE)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE, DIPHENYLAMINE)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE, DIPHENYLAMINE)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE, DIPHENYLAMINE)

#### 14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID subsidiary risk	
ADR/RID label	9
IMDG class	9
IMDG subsidiary risk	
ICAO class/division	9
ICAO subsidiary risk	

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS	F-A, S-F
Emergency Action Code	2Z

## NON-SILICONE HEAT TRANSFER COMPOUND

**Hazard Identification Number** 90  
(ADR/RID)

**Tunnel restriction code** (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU legislation** Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
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 (as amended).

**Authorisations (Title VII Regulation 1907/2006)** No specific authorisations are known for this product.

**Restrictions (Title VIII Regulation 1907/2006)** No specific restrictions on use are known for this product.

**Water hazard classification** WGK 2

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

**Issued by** Grace Claypole

**Revision date** 07/05/2015

**Revision** 10

**SDS number** 10484

**Risk phrases in full** R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Hazard statements in full** H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H331 Toxic if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H410 Very toxic to aquatic life with long lasting effects.

## NON-SILICONE HEAT TRANSFER COMPOUND

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.