

**Section 1-PRODUCT AND MANUFACTURER IDENTIFICATION**
**1.1 Product Identifier**

Name: **HD CLEAR**

Code: CX-HD5

**1.2 Relevant Uses or Application:** Garment Textile Screen Printing Paste

**1.3 Details of Supplier:**
**CALIX INDUSTRY TRADE Co., Ltd.**

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**Section 2- HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture:**
**CLP Regulation(EC) 1272/2008:**

The product is not classified as dangerous according to CLP regulation (EC) 1272/2008.

\*GHS Classification: Not a dangerous substance or mixture.



\*HMIS Classification: See Section 15.

**2.2 Label elements:**
**CLP Regulation (EC) 1272/2008:** Hazard

statement: Not applicable. Precautionary

statements: Not applicable

**2.3 Other hazards**

Effects of overexposure: No significant adverse effects from a single exposure expected from normal use.

**Section 3- COMPOSITION/ DATA ON INGREDIENTS**
**3.1 Substance:** Non-applicable.

**3.2 Mixture:**

Chemical description: Acrylic Co-polymer Resin

**Components:**

No components are fulfilled the criteria set forth in Annex II of REACH regulation (EC) 1907/2006. These products do not contain any known banned hazardous materials nor do they contain any carcinogenic agents.

Name	CAS#	Percent	Hazard limits
Acrylate copolymer	9003-01-4	50%	NILL
Surfactant	151-21-3	10%	NILL
Additive	9002-92-0	5%	NILL
Demonized water	7732-18-5	35%	NILL

**Section 4-FIRST AID MEASURES**
**4.1 General information:**

Any symptom resulting from toxicities can appear after exposure. In any case of doubt or if symptom persists, please seek to immediate medical attention or call to doctor.

**\* After inhalation:**

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of Intoxication removes the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

**\* After skin contact:**

Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

\* After eye contact:

Rinse opened eye for several minutes under running water. Seek medical treatment as a precaution.

\* After swallowing:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse mouth and throat with water. In case of persistent symptoms, consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed:** No data available

**4.3 Indication of any immediate medical attention and special treatment needed:** No data available

## Section 5-FIRE FIGHTING MEASURES

### 5.1 Extinguishing agents:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation, it is recommended to use CO<sub>2</sub>, extinguishing powder or water spray jet. Fight larger fires with water spray jet or foam.

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe smoke. In the event of fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) may be formed.

### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available.

## Section 6-ACCIDENTAL RELEASE MEASURES

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

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

### 6.2 Environmental precautions:

Contain the product absorbed in sealed containers. In the case of spillage into an aqueous medium notify the relevant authority. Material should not be drained into the sewers.

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

Absorb with liquid-binding material or scoop material into clean container for disposal. Dispose of the material collected according to regulations.

### 6.4 Reference to other sections:

Refer to Section 8.

## Section 7-HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

#### 7.1.1 Handling:

Handle and open containers with care. Avoid eye contact. Avoid excessive or repeated skin contact. Keep the containers closed when not in use.

#### 7.1.2 Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before taking meal breaks and immediately after handling the product. Do not eat, drink or smoke while using the product. Remove and wash contaminated clothing before re-use.

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

Keep the container tightly closed in a cool, dry, well-ventilated area, away from oxidizing and combustible materials.

### 7.3 Specific end use:

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## Section 8-EXPOSURE CONTROLS AND PERSONAL PRETECTION

### 8.1 Control parameters:

Exposure limits: Not applicable.

### 8.2 Exposure controls:

#### 8.2.1 General security and hygiene measures in the work place:

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection, consult the information leaflet provided by the manufacturer. All information contained herein

is a recommendation which needs some specification from the labor risk prevention services as it is not known whether the company has additional measures at its disposal.

## 8.2.2 Personal protective equipment:

\* **Skin protection:** Wear gloves resistant to conditions of use. Additional protection may be necessary to prevent skin contact including the use of apron, face shield, boots or full body protection.

\* **Personal hygiene:** Avoid breathing fumes during fusion process. Wash hands before eating. Wash contaminated clothing before reuse. Normal washing will be sufficient.

\* **Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

\* **Eye protection:** Splash proof glasses recommended.

## 8.2.3 Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container.

## Section 9-PHYSICAL AND CHEMICAL PROPERTIES

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

#### Appearance:

Form:	Paste
Color:	cream
Smell:	Odorless

#### Safety Data:

Melting point :	Not applicable
Flash point:	Not applicable
Self-inflammability:	Product is not self igniting.
Danger of explosion:	Product is not explosive.
Specific Gravity/Density	1.2 g/cm <sup>3</sup>
viscosity	30,000-50,000 cps
Solubility with water:	In-Soluble
PH-value:	Not Applicable

### 9.2 Other information:

Percent Volatile by volume: Not applicable; Does not contain any volatile organic compounds.

Hazardous Air pollutant: Does not contain any HAP's in accordance with US Environmental requirement list .

## Section 10-STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the conditions of storage temperature at 10°C to 40°C, with proper handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Not applicable.

### 10.5 Incompatible materials:

Oxidizing agents, acids.

### 10.6 Hazardous decomposition products:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), Silicone Dioxide.

## Section 11-TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### 11.1.1 Acute toxicity:

The experimental information related to the toxicological properties of the product itself is not available.

#### 11.1.2 Potential health effects:

- \* On the skin (acute effect): In case of longer, direct contact with the skin slight irritations of the skin are possible.
- \* On the skin (acute effect): In case of direct contact irritations are possible.
- \* Inhalation (acute effect): In case of inhalation, may be harmful and cause respiratory tract irritation.
- \* Ingestion (acute effect): In case of swallow, harmful is possible.

### 11.2 Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for preparations as issued in the latest version. If used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**Section 12-ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available.

**12.1 Toxicity:**

12.1.1 Ecotoxicity:	Not available.
12.1.2 Bioaccumulation:	Not available.
12.1.3 Toxicity of the products of Biodegradation:	The product itself and its products of degradation are not toxic.

**Section 13-DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods (disposal):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). Disposal of in accordance with appropriate U.S. Federal, State and local regulations, regulation of EU member states.

**13.2 Waste classification:** Non-hazardous.**Section 14-TRANSPORT INFORMATION**

This product is not regulated for transport (ADR/RID,IMDG,IATA)

- Transport/Additional information: Does not belong to dangerous goods according to transport regulations.
- Transport Information: Not Restricted. TARIFF No.(H.S.C)( 3906.90.90.00-1)
- ICAO/IATA: Not regulated as a hazardous material or dangerous goods for transportation. (revision date: 2016)

**Section 15-REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC". Observe the normal safety regulations when handling chemicals.

**15.2 Chemical safety assessment(HMIS):**

Health	1
Flammability	0
Reactivity	0
Personal Protection	A

**Section 16-OTHER INFORMATION****Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EU) No 453/2010, Regulation (EC) No 2015/830).

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

**Classification procedure:**

Not applicable.

**Disclaimer:**

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

**Department issuing data specification sheet:** Product Safety Dept.

**Contact:** CALIX INDUSTRY TRADE Co., Ltd