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10951 Bush Lake Rd., Minneapolis, MN 55438

Tel: +1 952-941-9505 / [www.katun.com](http://www.katun.com)

# ***Safety Data Sheet***

According to EC 1272/2008 and 453/2010

Version 6.0 Revision: 2017/09/18

## ***SH 2310U/3610N DEV 195 YLW***

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### HMIS Hazard Ratings:

Health	1	slightly hazardous
Flammability	1	combustible
Reactivity	0	stable
Personal Protection	E	safety glasses, gloves, dust respirator

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier :

Trade name: SH 2310U/3610N DEV 195G YLW  
Other means of identification: None

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

**1.2.1 Relevant identified uses:** Developer for Toner

**1.2.2 Uses advised against:**

Do not supply to general public.

This product should be stored, handled and used according to the rules of hygiene, safety and environmental protection provided by existing laws.

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

Supplier name: Katun Corporation  
Address: 10951 Bush Lake Rd., Minneapolis, MN, USA 55438  
Tel: +1-952-941-9505

Information contact: [order@us.katun.com](mailto:order@us.katun.com)

### 1.4 Emergency telephone number:

U.S.A. +1-952-941-9505

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Regulation GHS / CLP

Not classified

### 2.2 Label elements

Hazard Substance: none

#### GHS / CLP Classification

**Signal word: Not required**

**Symbol / Hazard statements**

None None

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**Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response statements:**

None

**Storage statements:**

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

**2.3 Other hazards**

None.

## 3. Composition / information on ingredients

**3.1 Substance/preparation: Mixture**
**3.1.1 Description of the mixture: Mixture of Developer**
**3.1.2 Hazardous ingredients**

Component	CAS/ EC /REACH Number	Classification GHS / EC 1272/2008(CLP)	% by weight
Ceramic materials	CAS. 66402-68-2 EC. 266-340-9	None	>88
Carbon Black	CAS. 1333-86-4 EC. 215-609-9 Pre-registration (REACH) 05-2114277414-47-0000	None	<1
Polyester resin	CAS. 119681-36-6 75214-60-7	None None	<6 <2
Pigment	CAS. 6358-31-2	None	<2

**3.1.3 Additional information**

Full text of H- and EUH-phrases: see section 16

## 4. First aid measures

**4.1 Description of first aid measures:**
**4.1.1 General information:**

Move victim from the contaminated workplace to ventilated place. Call the hospital for medical assistance, and provide emergency treatment.

**4.1.2 Following inhalation:**

Remove victim to fresh air immediately. Get medical aid immediately.

**4.1.3 Following skin contact:**

Remove contaminated clothing and shoes. Wash with soap and water.

**4.1.4 Following eye contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.

**4.1.5 Following ingestion:**

Wash out mouth with water and then drink plenty of water. Get medical aid immediately.

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### 4.1.6 self-protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

No information available.

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

Treat symptomatically and supportively.

## 5. Firefighting measures

### 5.1 Extinguishing media:

Suitable: Water spray, foam or dry extinguishing media.

Unsuitable: None known.

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

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, phosphorus oxides

### 5.3 Advice for fire-fighters:

Good firefighting practice dictates the use of self-contained breathing apparatus and turnout gear. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### 5.4 Additional information:

Can form explosive dust-air mixtures when finely dispersed in air.

## 6. Accidental release measures

### 6.1 Personal precautions:

- Removal of ignition sources.
- Provision for sufficient ventilation.
- Respiratory protection.
- Do not breathe spray.

### 6.2 Environmental precautions:

Keep away from drains, surface and groundwater and soil. To alert the neighborhood.

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

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor

### 6.4 Reference to other sections:

Refer to protective measure list in Sections 8 and 13.

### 6.5 Additional information:

None.

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### 7. Handling and storage

#### 7.1 Precautions for safe handling:

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Prevent skin and eyes contact. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

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

The substances in our product are very stable, please put it in a ventilated, cool, dry place. Keep container closed when not in use. Store away from food and drink.

#### 7.3 Specific end uses:

None

### 8. Exposure controls / personal protection

#### 8.1 Control parameters:

No exposure limit value is derived.

#### 8.2 Exposure controls:

##### - Application of local exhaust ventilation (LEV) during the mixing of dyes

- **Respiratory protection:** When handling material that may generate dust, it is recommended to wear a filtering half masks EN 149 2001 (FFP1 80% filtering), the material can be polypropylene fabric.

- **Hand protection:** Chemically resistant gloves conforming to EN374, e.g. PVC and Latex gloves; breakthrough time (maximum wear duration): 480 min.



- **Eye protection:** Safety glasses with side-shields (frame goggles) (e.g. EN 166)

- **Body protection:** Wear professional long-sleeved overalls (EN ISO13982-1(type5) against solid particles and EN 13034:2009 (type6) protective clothing offering limited protection against liquid chemicals). Material can be mixing of cotton and polyamide, or polypropylene. Protective shoes/boots are not required.

#### 8.3 General safety and hygiene measures:

The usual precautions for the handling of chemicals must be observed.

### 9. Physical and chemical properties

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

##### Appearance

- **Physical state:** Powder
- **pH value:** No data available
- **Colour:** Yellow

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- <b>Odour:</b>	Odourless
- <b>Odour threshold:</b>	No data available
<b>Safety relevant basic data</b>	
- <b>Melting Point:</b>	Ca. 1400 °C
- <b>Boiling Point:</b>	No data available
- <b>Flash Point:</b>	No data available
- <b>Evaporation Rate:</b>	No data available
- <b>Upper explosive limits:</b>	No data available
- <b>Lower explosive limits:</b>	No data available
- <b>Vapor pressure:</b>	No data available
- <b>Vapor density:</b>	No data available
- <b>Partition coefficient:</b>	No data available.
- <b>Auto ignition temperature:</b>	No data available
- <b>Decomposition temperature:</b>	No data available
- <b>Viscosity, dynamic:</b>	No data available..
- <b>Oxidizing properties:</b>	No data available.
- <b>Explosion hazard:</b>	No data available.
- <b>Bulk density:</b>	Ca. 1.8 kg/L
- <b>Relative Density:</b>	No data available
- <b>Solubility in water:</b>	No data available
- <b>Solubility in other solvents:</b>	No data available
<b>9.2 Other information:</b>	None.

## 10. Stability and reactivity

### 10.1 Reactivity:

Release hydrogen gas when reacted with acids.

### 10.2 Chemical Stability:

Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions:

None.

### 10.4 Conditions to avoid:

Heat, moisture.

### 10.5 Incompatible materials:

Strong acid and strong oxidizing agents.

### 10.6 Hazardous decomposition products:

None under normal storage conditions.

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### 11. Toxicological information

#### 11.1 Information on toxicological effects:

- **LD50/oral/rat:** No data available.
- **Skin irritation (tested on rabbits):** No data available.
- **Eye irritation (tested on rabbits):** No data available.

11.2 Other information: None.

### 12. Ecological information

#### 12.1 Toxicity:

- **LC50 (fish):** No data available.
- **EC50 (daphnia):** No data available.
- **IC50 (algae):** No data available.

#### 12.2 Persistence and degradability:

- **Abiotic degradation:** No data available.
- **Chemical oxidation demand (COD) value:** No data available.
- **Biological oxidation demand (BOD) value:** No data available.
- **AOX:** No data available.
- **Total organic con.(TOC):** No data available.
- **Volatile organic compound (VOC):** No data available.
- **Biodegradability:** No data available.

#### 12.3 Bioaccumulative potential:

- **Partition coefficient (n-octanol/water):** No data available
- **Bioconcentration factor (BCF):** No data available.

#### 12.4 Mobility in soil:

No data available.

#### 12.5 Results of PBT and vPvB assessment:

No data available.

#### 12.6 Other adverse effects:

None

#### 12.7 Additional ecotoxicological information:

- **Heavy-metal content:** Under the ETAD recommended limits.

### 13. Disposal considerations

#### 13.1 Waste treatment methods:

- **Product disposal:** The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable product via a licensed waste disposal contractor.

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**- Packaging:** Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way.

### 13.2 Additional information:

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

## 14. Transport information

**14.1 UN Number:** No classification assigned.

**14.2 UN Proper Shipping Name:** No classification assigned.

**14.3 Transport hazard class(es):** No classification assigned.

**14.4 Packing group:** No classification assigned.

### 14.5 Environmental hazards

Marine pollutant (Yes/No): No

**14.6 Special precautions for user:** No special precautions are required for this product

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

### Other information:

Not applicable according to IATA.

## 15. Regulatory information

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

#### U.S. Regulation:

TSCA inventory status:	Not listed
TSCA 12(b) export notification:	Not listed
Cerla section 103 (40cfr302.4):	Not Reportable
SARA section 302 (40cfr355.30):	Not Reportable
SARA section 304 (40cfr355.40):	Not Reportable
SARA section 313 (40cfr372.65):	Not Reportable
OSHA process safety (29cfr1910.119):	Not Reportable
State regulations:	
California proposition 65:	Not Reportable

#### European Regulations:

Registration REACH: Not listed

### 15.2 Chemical safety assessment

Chemical Safety Assessment has been carried out No



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### 16.Other information

#### 16.1 Abbreviations and acronyms:

HMIS: Hazardous Materials Identification System	CAS: Chemical Abstracts Service
LD50: Lethal dose ,50 percent	LC50: Lethal concentration,50 percent
EC50: Half maximal effective concentration	IC50: Half maximal inhibitory concentration
AOX: Halogenated organic compounds	IATA: International Air Transport Association
OSHA: Occupational Safety and Health Act	TSCA: Toxic Substance Control Act
DNEL: derived no effect level	PNEC: potential no effect concentration
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act	
ETAD: The Ecological and Toxicological Association of Dyes and Organic Pigments Manufacturers	
SARA: Superfund Amendments and Reauthorization Act	

**16.2 Key literature references and sources for data:** No data available.

#### **16.3 Classification for mixture and used evaluation method according to regulation(EC) 1207/2008 (CLP)**

The mixture is not classified due to non-hazardous substances.