

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Kuramiron U 8000 series  
Supplier : Kuraray Co., Ltd., Chemicals Company ,  
Elastomer Division, Polymer Marketing & Sales Department  
Ote Center Building 1-1-3, Otemachi, Chiyoda-ku, Tokyo 100-8115, Japan  
Tel: +81-3-6701-1613, Fax: +81-3-6701-1645  
E-mail: elastomer\_msds@kuraray.co.jp

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Substance

Chemical nature : Polyurethane Elastomer

Chemical name	Concentration	CAS No.
Polyurethane	95%<	Confidential
Antioxidant / Stabilizer	5%>	Confidential

## 3. HAZARDS IDENTIFICATION

This product is not hazardous as defined by the U.S. Occupational Safety and Health Administration. (OSHA) under its Hazard Communication Standard (HCS), 29 CFR 1910.1200.

UN Class and UN Number : Non regulated commodity  
Adverse Human Health Effects : Not available  
Physical and Chemical Hazards: Not applicable  
Environmental Effects : Carbon monoxide and hydrogen cyanide may be generated when it is incinerated under some conditions

## 4. FIRST-AID MEASURES

Eye Contact :

Gently rinse the eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.

Skin Contact :

Not ordinarily expected in contact at normal temperature. If contact with hot material, cool the burn area by flushing with large amounts of water and get medical treatment.

Inhalation :

If gas or dust generated in process is inhaled, remove person to flush air. If signs/symptoms continue, get medical attention.

Ingestion :

Rinse mouth with water and get medical advice. Do not induce vomiting.

## **5. FIRE-FIGHTING MEASURES**

Specific Hazards :

Not flammable but will burn. Toxic gases (Hydrogen cyanide, carbon monoxide and nitrogen oxides) may form when burned without sufficient oxygen.

Extinguishing Media :

Use water, fog, foam, dry chemical powder or CO<sub>2</sub>.

Specific methods :

Keep personnel removed from and upwind of fire. Cool fire exposed containers with water.

Protections of fire-fighters :

Firefighters should wear proper protective equipment(helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

## **6. ADDITIONAL RELEASE MEASURES**

Method for Cleaning up :

Normal procedures for clean-up. Use good housekeeping practices. Shovel and sweep up or use industrial vacuum cleaner. Put into containers for reclaiming or disposal.

Personal Precaution :

Wear appropriate respiratory protection and protective clothing as described in section 8.

## **7. HANDLING AND STORAGE**

Handling :

Do not use near open flames. Avoid breathing vapors from heated materials. Adequate ventilation and/or engineering control must be employed in high temperature processing. If dust is created in processing, ground facilities to prevent static sparks and remove ignition sources.

Storage :

Store in a cool, dry, well ventilated location.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Control Parameters

Comp.	OSHA			ACGIH
No.	PEL/TWA	PEL/CEILING	TVL/TWA	TLV/STEL Other
P	None established			

Respiratory Protection :

If engineering controls do not maintain their performance to a level that is adequate to

protect worker health, a NIOSH-approved respirator should be worn. In accordance with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors and dusts.

Protective Clothing :

Safety glasses and protective clothing should be worn when product is heated in processing.

Additional Protective Measures :

Adequate ventilation and/or engineering controls are required when product is heated in processing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point (deg. F)	:	None
Melting Point (deg. F)	:	None
Flash Point	:	None
Flammable Limits/Percent Volume in Air	Lower :	None Higher : None
Specific Gravity (H <sub>2</sub> O=1)	:	1.13 – 1.23
Solubility in Water	:	Insoluble
Vapor Pressure (mm Hg)	:	None
Vapor Density (Air=1)	:	None
Evaporation Rate (Butyl Acetate = 1)	:	None
Appearance and Odor	:	Solid, essentially odorless.

## **10. STABILITY AND REACTIVIY**

Stability :

This product is considered a stable material under normal and anticipated storage and handling conditions.

Conditions and Materials to Avoid :

Rainwater, the direct rays of the sun, open flame and etc.

Hazardous Decomposition Products :

At processing temperatures, some degree of thermal degradation will occur. Although highly dependent on temperature and environmental conditions, a variety of decomposition products may be present ranging from simple hydrocarbons (such as methane and propane) to toxic/irritating gases (carbon monoxide, dioxide and nitrogen oxides and etc.).

## **11. TOXICOLOGICAL INFORMATION**

No.	Acute Oral LD <sub>50</sub>	Acute Dermal LD <sub>50</sub>	Acute Inhalation LC <sub>50</sub>	Ames Test
P	Not Available	Not Available	Not Available	Not Available

## **12. ECOLOGICAL INFORMATION**

All evidence indicates that large polymer molecules are not biologically active.

## **13. DISPOSAL CONSIDERATIONS**

Waste Disposal :

All recovered material should be disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

## **14. TRANSPORT INFORMATIONS**

Department of Transportation Classification : Not hazardous by D.O.T. regulations

DOT Proper Shipping Name : Not applicable

UN Classification Number : Non regulated commodity

## **15. REGULATORY INFORMATION**

TSCA Inventory (USA) : Listed

EINECS (EU) : Polymer Exempt (Monomer listed)

IECSC (China) : Listed

ENCS (Japan) : Listed

## **16. OTHER INFORMATION**

All data presented here in is based on actual measurements performed by Kuraray Co., Ltd. All information contained herein is presented in good faith and without warranty.

For medical, healthcare and food contact applications, please contact us for specific recommendations. This product should not be used in any devices or materials intended for implantation in the human body.

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