

Material Safety Data Sheet

KURAMIRON - U 8165-000

MSDS No.KEU - 001I

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name : KURAMIRON - U 8165-000
Supplier : Kuraray Co., Ltd., Elastomer Div.
Elastomer Dept., Urethane Sec.
Kuraray Nihonbashi Building
3-1-6, Nihonbashi, Chuo-ku, Tokyo 103-8254, Japan
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name : Polyurethane Elastomer (Polyester Type)
Contents : More than 99%
Formula : $(C_{15}H_{10}N_2O_2 \cdot C_6H_{10}O_4 \cdot C_6H_{14}O_2 \cdot C_4H_{10}O_2)_x$
CAS No. : 103358-63-0

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 carcinogenic effects
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 : Flush eyes with water. If irritation occurs, get medical attention.
Product is practically nonirritating to the eyes.
Skin Contact : If contact with molten product occurs, treat as for ordinary burns.
Product is nonirritating to the skin.

- Inhalation** : Not ordinarily required.
Product is not expected to cause irritation to the nose, throat or respiratory tract.
- Ingestion** : Not ordinarily required.
Product is generally considered to have a low order of acute oral toxicity.

5 FIRE FIGHTING MEASURES

- Specific Hazards** : Toxic gases (carbon monoxide and nitrogen oxides) may form when burned without sufficient oxygen.
- Extinguishing Media** : Use water fog, foam, dry chemical or CO₂
- Special Fire Fighting Procedures and Precautions** :
Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.
- Flash Points and Method** : None
- Flammable Limits/Percent Volume in Air**
- Lower : None
- Higher : None

6 ACCIDENTAL RELEASE MEASURES

- Method for Cleaning up** : Normal procedures for clean-up. Use good housekeeping practices. Shovel and sweep up or use industrial vacuum cleaner. Avoid generating dust clouds. 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** : When handling the product, ground all transfer, blending and dust collecting equipment to prevent static sparks. Remove all ignition sources from material handling, transfer and processing areas where dust may be present. Mechanical and local exhaust should be provided in work areas. Do not use near open flames or areas where

smoking is permitted. Practice good house keeping. Do not allow product to accumulate in processing area. The product spilled on walking surfaces constitute a slipping hazard. Equipment should provide a means for dissipating any charges that may develop. Avoid vapors from heated products. Adequate ventilation and/or engineering controls must be employed in high temperature processing to prevent exposure to potentially toxic/irritating fumes.

Storage : Store in a cool, dry, well ventilated location.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

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

Respiratory Protection : Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-supplying respirator air-purifying respirator for particles.

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

Form	:	Pellet(solid)
Boiling Point (deg. F)	:	None
Melting Point (deg. F)	:	300 -400
Specific Gravity (H ₂ O=1)	:	1.13 - 1.20
Solubility in Water	:	Insoluble
Solubility / other	:	Soluble in DMF . DMSO.
Medical resistance	:	Swollen by alcohol and so on.

10 STABILITY AND REACTIVITY

Stability : Stable. Hazardous polymerization will not occur.

Conditions and Materials to Avoid :

Avoid contact with strong oxidizing agents.

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 ₅₀	Acute Dermal LD ₅₀	Acute Inhalation LC ₅₀	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 CONSIDERATION

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 INFORMATION

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

All the monomers used to produce this product are listed in EINECS inventory list.

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.

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