



# MATERIAL SAFETY DATA SHEET

## ADEKA ULTRA SEAL

PAGE : 1 / 7  
DATE PREPARED : APRIL /10/1995  
DATE REVISED : JANUARY/29/2003  
M S D S No. : US-86095

PRODUCT NAME

MC

### 1. CHEMICAL PRODUCTS AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: ADEKA ULTRA SEAL MC

GENERAL USE: Waterstop for construction use.

FORMULA: Mixture

MANUFACTURER:

ASAHI DENKA Co., Ltd.

3-14, NIHONBASHI-MUROMACHI

2-CHOME, CHUO-KU,

TOKYO 103-8311, JAPAN

TEL 81-3-5640-0334 FAX 81-3-3660-1987

CHEMICAL NAME & STRUCTURE:

Mixture

EMERGENCY TELEPHONE NUMBERS:

OCM, INC.

TEL 847-955-9700 FAX 847-541-9338

DISTRIBUTOR:

OCM, INC.

TEL 847-955-9700 FAX 847-541-9338

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>%</u>	<u>CAS No.</u>	<u>NOTE</u>
Natural rubber	30~40	9006-04-6	None
Urethane resin	30~40	Trade secret	None
Filler	10~20	Trade secret	None
Dioctyl adipate	1~ 5	103-23-1	None
Carbon black	1~ 5	1333-86-4	Carcinogen
Zinc oxide	1~ 3	1314-13-2	Hazardous chemical

#### EXPOSURE GUIDELINE

<u>OSHA HAZARDS</u>	<u>OSHA</u>		<u>ACGIH TLV</u>			
	<u>PEL</u>		<u>TWA</u>		<u>STEL</u>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Carbon black	—	3.5	—	3.5	—	—
Zinc oxide	—	5	—	10	—	—



# MATERIAL SAFETY DATA SHEET

## ADEKA ULTRA SEAL

PRODUCT NAME

MC

PAGE : 2 / 7  
DATE PREPARED : APRIL /10/1995  
DATE REVISED : JANUARY/29/2003  
M S D S No. : US-86095

### 3. HAZARDS IDENTIFICATION

\*\*\*\*\* EMERGENCY OVERVIEW \*\*\*\*\*

\*  
\* Black sponge-like strip. No odor. \*  
\* May cause eye irritation. \*  
\* Prolonged exposure may cause skin irritation. \*  
\* It contains the carbon black which is listed as a potential carcinogen by IARC \*  
\* (classification 2B). However it is article kneaded. \*  
\*  
\*\*\*\*\*

#### POTENTIAL HEALTH EFFECTS

SKIN CONTACT : Prolonged exposure may cause skin irritation.  
 EYE CONTACT : May cause eye irritation.  
 INHALATION : Vapors are unlikely due to physical properties.  
 INGESTION : Oral toxicity has not been determined.  
 CHRONIC EFFECTS : It contains the carbon black which is listed as a potential carcinogen by IARC (classification 2B). However it is article kneaded.

### 4. FIRST AID MEASURES

SKIN CONTACT : Not expected to present a significant skin hazard under anticipated conditions of normal use.

EYE CONTACT : Immediately flush with large quantities of clean water and consult an ophthalmologist.

INHALATION : Vapors are unlikely due to physical properties.

INGESTION : See a physician immediately.

NOTE TO PHYSICIAN : None.



# MATERIAL SAFETY DATA SHEET

ADEKA ULTRA SEAL

PAGE : 3 / 7  
DATE PREPARED : APRIL /10/1995  
DATE REVISED : JANUARY/29/2003  
M S D S No. : US-86095

PRODUCT NAME

MC

---

## 5. FIRE-FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

Flashpoint and Method (°C) : Not applicable.  
Flammable Limits (% by volume) : LFL Not applicable. UFL Not applicable.  
Autoignition Temperature (°C) : Not applicable.

EXTINGUISHING MEDIA : CO<sub>2</sub> foam, water spray, dry chemical powder.

SPECIAL FIRE-FIGHTING PROCEDURES : None.

FIRE-FIGHTING INSTRUCTIONS : Wear full bunker gear including a positive pressure self-contained breathing apparatus in any closed system.

HAZARDOUS DECOMPOSITION PRODUCTS : Smoke and oxides of carbon.

TO FIREMEN : Firefighters are to wear full protective equipment, including full bunker gear and SCBA respiratory protection.

---

## 6. ACCIDENTAL RELEASE MEASURES

SPELL : Non-liquid material. Eliminate all sources of heat and ignition.  
No specific hazard under normal conditions.

---

## 7. HANDLING AND STORAGE

HANDLING : Avoid contact with moisture prior to use.  
Because material might be expanded with moisture.

STORAGE : Avoid contact with water and moisture absorption. Store in a cool place. Keep away from sparks, open flames, and defective electrical wiring or equipment, etc.

---



# MATERIAL SAFETY DATA SHEET

## ADEKA ULTRA SEAL

PRODUCT NAME

MC

PAGE : 4 / 7  
DATE PREPARED : APRIL /10/1995  
DATE REVISED : JANUARY/29/2003  
M S D S No. : US-86095

---

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS : No special ventilation is necessary under normal conditions.

#### PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : No special respiratory protection is normally required.

EYE PROTECTION : Use of eye protection is good industrial practice.

SKIN PROTECTION : Use of protective gloves/clothing is good industrial practice.

BODY PROTECTION : No specific body protection under normal conditions.

SPECIAL PROTECTION INFORMATION: Not require under normal conditions.

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Black rubber-like strip.

ODOR : None.

BOILING POINT ( °C ) : Not applicable.

MELTING POINT/ ( °C ) : Not applicable.

FREEZING POINT

VAPOR PRESSURE (mPa) : Not applicable.

SOLUBILITY IN WATER : Negligible.

SPECIFIC GRAVITY(g/ml) : 1.18

pH : Not applicable.

VISCOSITY (mPa. s) : Not applicable.

VAPOR DENSITY (air =1) : Not applicable.

EVAPORATION RATE : Not applicable.

(n- Butylacetate=1)

---



# MATERIAL SAFETY DATA SHEET

ADEKA ULTRA SEAL

PAGE : 5 / 7  
DATE PREPARED : APRIL /10/1995  
DATE REVISED : JANUARY/29/2003  
M S D S No. : US-86095

PRODUCT NAME

MC

---

## 10. STABILITY AND REACTIVITY

- CHEMICAL STABILITY : Stable in normal conditions.
- SUBSTANCE TO AVOID CONTAMINATION : Strong alkalis, strong acids, hazardous lights, peroxides, organic solvents.
- HAZARDOUS REACTION AND FIRE DANGER : No risk of special hazardous reactions or fire under normal conditions.
- PRODUCTS CAUSING HAZARDOUS DECOMPOSITION : Thermal decomposition or combustion may produce Oxides of Nitrogen, Carbon Monoxide and Carbon Dioxide.

---

## 11. TOXICOLOGICAL INFORMATION

- EYE EFFECTS : May cause eye irritation.
- SKIN EFFECTS : This substance may cause prolonged or significant skin irritation.
- ACUTE ORAL EFFECTS : No data available.
- ACUTE INHALATION EFFECTS : No data available.
- CHRONIC EFFECTS/CARCINOGENICITY : It contains the carbon black which is listed as a potential carcinogen by IARC (classification 2B). However it is kneading article.
- MUTAGENICITY : No data available.
- OTHERS : None.

---

## 12. ECOLOGICAL INFORMATION

- ECOLOGICAL INFORMATION : No data is available on the adverse effects of this material on the environment.
-



# MATERIAL SAFETY DATA SHEET

## ADEKA ULTRA SEAL

PAGE : 6 / 7  
DATE PREPARED : APRIL /10/1995  
DATE REVISED : JANUARY/29/2003  
M S D S No. : US-86095

PRODUCT NAME

MC

### 13. DISPOSAL CONSIDERATION

DISPOSAL INFORMATION : Dispose of in accordance with federal, state and local laws and regulations.

### 14. TRANSPORTATION INFORMATION

UN No. : Not applicable.

IMDG CODE. : Not applicable.

MARINE POLLUTANT : Not applicable.

### 15. REGULATORY INFORMATION

#### U.S. FEDERAL REGULATION:

TSCA: TSCA INVENTORY  registered  not registered

SARA TITLE III

	COMPONENT	CAS No.	WT%
--	-----------	---------	-----

SECTION 313 TOXIC CHEMICALS:	<u>Zinc oxide</u>	<u>1314-13-2</u>	<u>1~3</u>
	_____	_____	_____
	_____	_____	_____

#### INTERNATIONAL INFORMATION:

CEPA : DSL  registered  not registered

EINECS :  registered  not registered

<u>COMPONENT</u>	<u>EINECS No.</u>
Natural rubber	232-689-0
Urethane resin	Trade secret
Filler	Trade secret
Diocetyl adipate	203-090-1
Carbon black	215-609-9
Zinc oxide	215-222-5



# MATERIAL SAFETY DATA SHEET

## ADEKA ULTRA SEAL

PRODUCT NAME

MC

PAGE : 7 / 7  
DATE PREPARED : APRIL /10/1995  
DATE REVISED : JANUARY/29/2003  
M S D S No. : US-86095

### 16. OTHER INFORMATION

#### RATING

##### H M I S :

HEALTH ;	1
FLAMMABILITY ;	1
REACTIVITY ;	1
PERSONAL PROTECTIVE EQUIPMENT ;	B

##### N F P A :

HEALTH HAZARD ;	0
FLAMMABILITY ;	1
REACTIVITY ;	1
HAZARD IN THE USE OF WATER ;	None

#### REFERENCE :

- 1) Chemical Safety Data Sheets, Vol. 1 ~5. The Royal of Chemistry. (1989-) Thomas Graham House, Cambridge, U. K.
- 2) RTECS. Registry of Toxic Effects of Chemical Substance 1985 ~1986 Edition. (1984) U. S. DHHS (NIOSH).
- 3) Threshold limit values for chemical substances and physical agents and biological exposure indices, ACGIH (2001).
- 4) IRAC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Humans. Vol.1~79
- 5) NIOSH Pocket Guide to Chemical Hazards (1997)

OTHERS :   DATE PREPARED   : APRIL/10/1995  
              DATE REVISED    : JANUARY/29/2003  
              OTHER            : None

To the best of our knowledge, the information contained herein is accurate. However, neither ASAHI DENKA Co., Ltd. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.

Last page

*Osamu Fujimoto*

Name : Osamu Fujimoto  
Title : Associate Director, General Manager  
          ENVIRONMENT, SAFETY & QUALITY ASSURANCE DEPARTMENT.  
          ASAHI DENKA Co., Ltd.