The Best Fine
Chemical Company

Material Safety Data Sheet

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SH7070U Silicone rubber

Section 1 - Product and company identification

MANUFACTURER'S NAME
KCC Corporation
11-4, Daejuk-Ri, Daesan-Eup, Seosan-Si,
Chungnam-do, Korea

EMERGENCY TELEPHONE NO.
82-41-660-8700
INFORMATION TELEPHONE NO.
82-41-660-8700

PRODUCT CLASS
Silicone compound

DATE OF PREPARATION
May. 02, 2011

TRADE NAME & PRODUCT CODE
SH7070U

Section 2 - Composition of ingredients

INGREDIENT	SOBRIQUET	CAS NO.	PERCENT BY WEIGHT
Dimethyl, methyl vinyl siloxane, dimethyl vinyl terminated	Polyalkylalkenylsiloxane	68083-18-1	55~65
Silicon Dioxide	Silica	7631-86-9	25~35
Others			1~10

Section 3 - Hazards Identification

Routes of exposure
Exposure may be by inhalation, skin, eye contact. To minimize exposure, ventilation and personal protective equipment is recommended. Avoid breathing vapor or mist.
Avoid contact with eyes, skin, and clothing.

Short term & Long term effects
- Short term effects -
No data
- Long term effects -
No data

Section 4 - First Aid Measures

After inhalation
Remove from exposure area to fresh air immediately. Perform artificial respiration if necessar
Keep person warm and at rest. Get medical attention immediately.

After contact with the eyes
Wash eyes immediately with large amounts of water occasionally lifting upper and lower lids, until no evidence of chemical remains(at least 15~20 minutes).
Get medical attention immediately.

After contact with the skin

Remove contaminated clothing and shoes immediately. Launder before re-use.
Wash affected area thoroughly with soap and water until no evidence of chemical remains(at least 15~20 minutes). Get medical attention immediately.

After swallow

Extreme care must be used to prevent aspiration. Do not induce vomiting.
Slowly dilute with 1-2 glasses of water or milk. Get medical attention immediately.

Others

This product contains Methylpolysiloxanes which can generate Formaldehyde at approximately 300°F and above, in atmospheres which contain oxygen.
Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

Section 5 - Fire Fighting Measures

Extinguishing media

Regular foam, Carbon Dioxide, Dry Chemical

Special fire fighting procedures

Move container from fire area if you can do it without risk. Avoid breathing toxic vapors.
Keep upwind. Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable.
Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Unusual fire and explosion hazards

Closed containers may explode(due to the build-up of pressure) when exposed to extreme heat.

Section 6 - Accidental release measures

STEPS TO BE TAKEN IN CASE MATERIALS IS RELEASED OR SPILLED
Not applied due to solid.

Section 7 - Handling and Storage

Handling

Wear eye protection device and protective glove when handling this product.
May cause a curing difficulty with amine, sulfur, organophosphate compound, and organometallic compound.

Storage

Store in a cool and dry place. Avoid direct sunlight.
Store container in a well ventilated place.

Section 8 - Exposure controls and personal protection equipment

EXPOSURE LIMITS
Maximum airborne concentrations at the workplace:
not applicable
EXPOSURE IN THE WORK PLACE LIMITED AND CONTROLLED
GENERAL PROTECTION AND HYGIENE MEASURES
Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling.
PERSONAL PROTECTION EQUIPMENT RESPIRATORY PROTECTION
Not necessary under usual conditions. If aerosols occur during use, the following breathing protection is recommended: fine dust mask P2 .
HAND PROTECTION
Recommendation: Protective gloves made of butyl rubber , nitrile rubber protective gloves .
EYE PROTECTION
Recommendation: tight fitting protective goggles .
EXPOSURE TO THE ENVIRONMENT LIMITED AND CONTROLLED
Prevent material from entering surface waters and soil.
FURTHER INFORMATION FOR SYSTEM DESIGN AND ENGINEERING MEASURES
Observe information in section 7. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). If the product is used with a catalyst and crosslinker, the following measures are recommended: Vapours/aerosols should be exhausted directly at place of formation.

Section 9 - Physical and Chemical Properties

APPEARANCE : Transparent
ODOR : Oderless
SPECIFIC GRAVITY (H_2O=1) : 1.17
BOILING POINT(^oF) : Not applicable
FLASH POINT : Not applicable
EVAPORATION RATE(VS.n-BuAc) : Negligible
PH VALUE : None known
SOLUBILITY IN WATER : Insoluble
VAPOR DENSITY(VS.AIR) : Negligible
LOW EXPLOSIVE LIMIT(LEL) : No data
UPPER EXPLOSIVE LIMIT(UEL) : No data
AUTOIGNITION TEMPERATURE : No data

Section 10 - Stability and Reactivity

Stability : stable under normal conditions of use.
Conditions to avoid : None.
Materials to avoid : No data
Hazardous decomposition products : No data
Hazardous polymerization : Will not occur under normal conditions.

Section 11 - Toxicological Information

Effects of exposure : Not applied

Acute toxicity data : No data

ACUTE TOXICITY DATA :

	LD50(mg/kg, Oral-rat)	LC50(ppm/4h, Inh-rat)
Polydimethylsiloxane	Unknown	Unknown
Fumed silica	Unknown	Unknown
Others	Unknown	Unknown

Section 12 - Environmental Information

AIR
This product is a high molecular weight liquid polymer which has a very low vapour pressure (<1 mm Hg). As a result it is unlikely to become an atmospheric contaminant unless generated as an aerosol.

WATER
This product has a very low water solubility (< 100 ppb). As it has a specific gravity of < 1, if discharged to water, it will initially form a surface film. As the product is non volatile and has a high binding affinity for particulate matter, it will adsorb to particulates and sediment out.

SOIL
If discharged to surface water, this product will bind to sediment. If discharged in effluent to a waste water treatment plant, the product is removed from the aqueous phase by binding to sewage sludge. If the sewage sludge is subsequently spread on soil, the silicone product is expected to degrade.

DEGRADATION
No specific information is available on this product, but analogy with polydimethylsiloxane suggests that it will degrade in the soil, initially via an abiotic mechanism to form smaller molecules. These in turn are either biodegraded in soil or volatilized into the air where they are broken down in the presence of sunlight. Due to the very low water solubility of this product, standard OECD protocols for ready and inherent biodegradability are not suitable for measuring the biodegradability of this product.

ENVIRONMENTAL EFFECTS
TOXICITY TO WATER ORGANISMS
Based on analogy to similar materials this product is expected to exhibit low toxicity to aquatic organisms.

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Section 13 - Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Section 14 - Transport Information

US Department of Transportation(DOT)

Shipping name : not applicable
Hazard class : Not DOT regulated
ID number : None
Packing group : None
labels : not applicable

Section 15 - Regulatory Information

The law for occupational safety and health in Korea: section 39, 41
The law for hazardous chemical substances in Korea

Other International Regulations

Chemical Inventories
MITI : All components are listed on ENCS or its exempt rule.
KECL : All ingredients listed, exempt or notified.
IECSC : All ingredients listed or exempt.
EINECS : All ingredients listed or exempt.
TSCA : Not determined.
DSL : Not determined.
AICS : Not determined.
PICCS : Not determined.

Section 16 - Other Information

The data given here is based on our current knowledge and experience. The purpose of this safety to describe the products in terms of their safety requirements.
The data does not signify any warranty with regard to the products' properties.