

 **NIPPON GOHSEI**  
**MATERIAL SAFETY DATA SHEET**  
**[SHIKOH UV-7600B]**

According to Specification JIS Z 7252  
Effective date 11/07/11

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**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY**

Product Name: SHIKOH UV-7600B  
Manufacturer: The Nippon Synthetic Chemical Industry Co., Ltd.  
( NIPPON GOHSEI )  
Specialty Materials Segment  
Address: Shibaura Runesite Tower 4F, 9-1, Shibaura 3-chome, Minatoku,  
Tokyo  
Telephone: 81-3-6436-2815  
Facsimile: 81-3-6436-2820  
Emergency Telephone Number: 81-3-6436-2815 (Specialty Polymers Dept.)

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**2. HAZARDS IDENTIFICATION**

GHS Classification

Physical Hazards : -  
Human Health Hazards : Skin corrosion/irritation Category 2  
Serious eye damage/ eye irritation Category 1  
Skin sensitization Category 1  
Toxic to reproduction Category 2  
Environmental Hazards: -

Hazards not listed in the above are classified as “Not Applicable” or “Classification Not Possible”.  
Classification is based on data classified by the Japanese GHS Inter-ministerial Committee in 2006 and information from material suppliers in accordance with the Industrial Safety and Health Law.

GHS Label Elements

Hazard symbols :



**Signal words : Danger**

Hazard statements : Causes skin irritation  
Causes serious eye damage  
May cause an allergic skin reaction  
Suspected of damaging fertility or the unborn child

Precautionary statements : [Prevention]  
Wear protective gloves/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapours/spray  
Use only outdoors or in a well-ventilated area  
Wash thoroughly after handling.

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: [Response]  
 IF ON SKIN:  
 Wash with plenty of soap and water.  
 If skin irritation or rash occurs, seek medical advice/attention.  
 Wash contaminated clothing before reuse.  
 IF IN EYES:  
 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, before rinsing  
 IF IN DANGER OF EXPOSURE OR EXPOSURE:  
 Get medical advice/attention.  
 : [Storage]  
 Store in a well-ventilated place and locked up. Keep cool.  
 : [Disposal]  
 Dispose of contents/container in accordance with local / regional/ national/ international regulation.

Other hazards : Polymerization may occur by direct sunshine or heat.  
 which do not result Polymerization may occur explosively when heated or caught in fire.  
 in classification Decomposition by heat or combustion emits irritating or toxic gas (COx).

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content
Urethane acrylate	Confidential	60~70%
Acrylic esters (mixture)	Confidential	30~40%
Toluene (impurity of low material)	108-88-3	0.1~less than 0.3%

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### 4. FIRST AID MEASURES

#### INHALATION

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### INGESTION

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

#### SKIN CONTACT

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### EYE CONTACT

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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### 5. FIRE FIGHTING MEASURES

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**EXTINGUISHING MEDIA**

Water spray, fog or mist. Carbon dioxide or dry powder.

**SPECIFIC HAZARDS**

Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

**PROTECTIVE MEASURES IN FIRE**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

Use personal protection recommended in section.8. Isolate area. Remove sources of ignition. Keep unnecessary personnel away.

**ENVIRONMENTAL PRECAUTIONS**

Prevent entry into waterways, sewers, basements or confined areas.

**METHODS FOR CONTAINMENT**

Prevent further leakage or spillage if safe to do so. Use sand, perlite or vermiculite as an absorbent for large spills of this material.

**METHODS OF CLEAN-UP**

Sweep up or gather material and place in appropriate container for disposal.

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**7. HANDLING AND STORAGE**

**HANDLING:**

Never handle the container roughly, such as tumbling dropping, impacting, or dragging.

Because skin rash may occur, use protective gloves during handling to prevent skin contact.

Recommend to wash hands, face and mouth after working.

Wash hands immediately after you handling the product.

No open flames, no sparks, and no smoking.

**STORAGE:**

No fire. Avoid direct sunlight and heat sources. Prevent leakage and scattering.

Keep away from strong oxidants, strong acids, and strong alkaline substances.

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**TECHNICAL MEASURES:**

Keep the oxygen concentration to prevent polymerization and do not substitute for inactive gas. container tightly closed in a dry and well-ventilated, fireproof place. Keep away from heat, sparks and open flame.

**PROPER STORAGE CONDITIONS:**

Well-closed container

Store in a well-ventilated, cool, and dark place.

**SAFE MATERIALS FOR PACKAGES AND CONTAINER**

Well-closed container

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**TECHNICAL FACILITY MEASURES**

Handle in a property ventilated place. It is desirable to install local ventilation equipment, if possible. Install an emergency shower and face-washing facility near the handling site.

Toluene 20ppm (TWA) (ACGIH:2005)

**PROTECTIVE EQUIPMENT**

- Hand protection : Wear suitable protective gloves if risk of skin contact.
- Eye protection : Wear approved safety goggles.
- Skin and body protection : Wear protective clothes.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Viscous liquid, Slightly yellow
Odour	Characteristic Chemical.
pH	data not available
Melting point / Freezing point	data not available
Initial boiling point / boiling range	data not available
Flash point	(Acrylic esters) include 113, >110 degrees Celsius (Toluene) 4 degrees Celsius (closed cup)
Evaporation rate	data not available
Upper/lower flammability or Explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	Mixture : Specific gravity 1.0-1.2g/cm <sup>3</sup>
Solubility	Solvent solubility:Soluble in ethyl acetate and toluene, but insoluble in water .
Partition coefficient : n-octanol / water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available

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**10. STABILITY AND REACTIVITY**

**STABILITY**

Stable under the prescribed storage conditions.

**CONDITIONS TO AVOID**

Sunlight, Heat, UV-rays

**MATERIALS TO AVOID**

Acids, Bases, Oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

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**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY (ORAL)**

(one of Acrylic ester) Acute oral LD<sub>50</sub> values reported for rats were 2.46 mL this chemical /kg body weight, 1,350 mg/kg, or greater than 500 to 5,000 mg/kg. (NTP GMM No.4 (2005))

**SKIN CORROSION / IRRITATION**

(one of Acrylic ester)

TYPE OF TEST : Standard Draize test

ROUTE OF EXPOSURE : Administration onto the skin

SPECIES OBSERVED : Rodent - rabbit

DOSE/DURATION : 500 mg

REACTION SEVERITY : Moderate

REFERENCE :JTEHD6 Journal of Toxicology and Environmental Health. V.1- 1975/76-Volume (issue)/page/year: 19,149,1986

**SERIOUS EYE DAMAGE / IRRITATION**

(one of Acrylic ester)

Applications of this chemical to the eye of rabbits caused severe and corrosive irritation as well as corneal opacity (Carpenter et al., 1974; Andrews and Clary, 1986), and 1 mg of this chemical applied to the eye of rabbits resulted in severe irritation (Lenga, 1988; Sax and Lewis, 1989).

**RESPIRATORY OR SKIN SENSITIZATION**

(one of Acrylic ester)

this chemical was not detected as a sensitizer in repeated insult patch testing or in guinea pigs using the Buehler method. However, this chemical was positive in a guinea pig maximization test (Andrews and Clary 1986).(NTP GMM No.4(2005))

**REPRODUCTIVE TOXICITY**

(one of Acrylic ester)

teratogenic effects were not noted in a second study in which this chemical was administered at an unspecified dose that caused minimal maternal toxicity. From these results, the authors concluded that this chemical was not a teratogen. (NTP GMM No.4 (2005))

the influence on postimplantation loss rate and the mortality rate of the embryo are admitted in the reproduction test that oral study in rats of the organogenesis stage.(RTECS (2003))

(Toluene) This study suggests an increased risk of late spontaneous abortions associated with

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exposure to toluene at levels around 88 ppm (range 50-150 ppm)( European Union Risk Assessment Report(2003))

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**12. ECOLOGICAL INFORMATION**

**ACUTE AQUATIC TOXICITY**

(Toluene) It is noted that lower effect concentrations were observed with a marine species, the bay shrimp *Crangon franciscorum* (96hrs EC50 = 3.5 mg/l) and with the freshwater species *Ceriodaphnia dubia* (48hrs EC50 = 3.8 mg/l). (European Union Risk Assessment Report(2003))

**BIOACCUMULATION POTENTIAL**

(Toluene)log Kow=2.73 (PHYSPROP Database, 2005))

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**13. DISPOSAL CONSIDERATIONS**

**GENERAL INFORMATION**

Dispose of contents/container in accordance with all applicable regulations.

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Waste is suitable for incineration.

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**14. TRANSPORT INFORMATION**

U.N. Classification: Not applicable to the hazardous substances according to the UN definition.

U.N. Number: Not applicable

Specific transportation safety measures and conditions:

Confirm that there is no leakage on packaging and load the material by enforcing the prevention measure against load collapse, so as not to cause inversion, fall, and damage.

**GENERAL** The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

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**15. REGULATORY INFORMATION**

This safety datasheet complies with specification JIS -Z- 7252.

Follow all relevant regulations in your country.

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**16. OTHER INFORMATION**

MSDS Status: 03/28/2011 (ver.1.1)

This information given here is based on our knowledge and information at the date of its publication, but it is not to guarantee accuracy of information and safety.

For further information, please consult The Nippon Synthetic Chemical Industry Co., Ltd.