

 **NIPPON GOHSEI**
MATERIAL SAFETY DATA SHEET
[SHIKOH UV-3000B]

Effective date 28/06/2011

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

Product Name: SHIKOH UV-3000B
Manufacturer: The Nippon Synthetic Chemical Industry Co., Ltd.
(NIPPON GOHSEI)
Specialty Materials Segment
Address: 3-9-1 Shibaura, Minato-ku, Tokyo 108-0023, Japan
Telephone: +81-3-6436-2815
Facsimile: +81-3-6436-2820
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Emergency Telephone Number: +81-3-6436-2815 (Specialty Polymers Dept.)

2. HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards : -
Human Health Hazards : -
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 : None
Signal words : None
Hazard statements : None

Precautionary : [Prevention]
statements : [Response]
: [Storage]
: [Disposal]

Other hazards : Polymerization may occur by direct sunshine or heat.
which do not Polymerization may occur explosively when heated or caught in fire.
result in classification Decomposition by heat or combustion emits irritating or toxic gas (COx).
Skin sensitization material (Category 1) is contained less than 1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content
Urethane acrylate oligomer	Confidential	> 99%

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4. FIRST AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. For breathing difficulties oxygen may be necessary. Get medical attention.

INGESTION

Rinse mouth thoroughly. Get medical attention.

SKIN CONTACT

Flush skin thoroughly with water. Wash skin with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.

EYE CONTACT

Immediately rinse with water. Continue to rinse for at least 15 minutes. Get medical attention.

GENERAL ADVICE

Consult a physician. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

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

SPECIFIC HAZARDS

Fire or high temperatures create: Carbon monoxide (CO), carbon dioxide (CO₂), hydrocarbons.

PROTECTIVE MEASURES IN FIRE

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

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

PRECAUTIONS FOR SAFE HANDLING

Containment and measures for safe handling:

Keep away from sources of ignition – No smoking. Avoid contact with eyes, skin and ingestion.

Do not breathe dust/mist/vapours/spray. When using this product, do not eat or drink.

Wash hands immediately after handling. Do not discharge onto ground or into watercourses.

Incompatible substances or mixture:

Acids, bases, oxidising agents

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry and well-ventilated, and fire-proof place.

Keep away from heat, sparks, open flame and sunlight.

SPECIFIC END USE(S)

UV-curable resin

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Provide adequate local exhaust ventilation to maintain worker exposure.

Exposure limit values

Not set value (ACGIH)

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.

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	data not available
Evaporation rate	data not available
Upper/lower flammability or	data not available
Explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	1.0~1.2
Solubility	Immiscible with water. Soluble in organic solvents.
Partition coefficient : n-octanol / water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	40,000 - 60,000 mPa·s (60 degrees Celsius)

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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 (CO₂), hydrocarbons

11. TOXICOLOGICAL INFORMATION

SKIN SENSITIZATION

Skin sensitization material (Category 1) is contained less than 1%.

May cause an allergic skin reaction.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

No information available

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.

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.

15. REGULATORY INFORMATION

Follow all relevant regulations in your country.

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16.OTHER INFORMATION

Notes:

This information contained herein may be revised based on new findings and test results.

The information contained herein is prepared based on the available data and information at present, but no guarantee of accuracy in the information and safety is made.

All information contained herein is intended for normal handling. Therefore, in case of special handling, users are requested to newly practice appropriate safety measures for application and usage before handling.

All chemical products may have unknown hazards, therefore, meticulous cautions are required for handling. Users are requested to set the safe use conditions on their own responsibility.

MSDS Status: 2011/07/13 (ver. 2)