

**MATERIAL SAFETY DATA SHEET****Product Name:** Beger Unithane B-52

Product Code: U-202 for Interior

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Date of Issue: 30/05/2012

Version no.1

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANYProduct name: **Beger Unithane B-52 #U-202** for Interior

Supplier: Beger Co., Ltd.

Address: 90, 92 Buntudthong Road, Rachatavee, Bangkok 10400 Thailand.

2. COMPOSITION / INFORMATION ON INGREDIENTS

No.	Description	CAS.No.	Weight (%)
1	Solvent	1330-20-7, 141-78-6	< 60
2	Others	Not Listed	< 1
3	Moisture-Curing Polyurethane Resin	Not Listed	40

* No other material added intentionally after than shown above.

Legend: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, IK=No classification required, E=Explosive, O=Oxidizing, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Danger to the environment.

3. HAZARDS IDENTIFICATION

Flammable: Flammable.

Inhalation: Slightly irritant.

Skin Contact: Prolonged or repeated skin contact can cause slight skin irritation.

Eye Contact: Direct contact with material can cause slight irritation.

4. FIRST AID MEASURES

General Advice: Avoid contact with skin and eyes.

Inhalation: Move subject to fresh air.

Skin Contact: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Eye Contact: Flush eyes with a large amount of water at least 15 minutes. Consult a physician if irritation persists.

Ingestion: If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.



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5. FIRE FIGHTING MEASURES

Extinguishing Agents: Use extinguishing media appropriate for surrounding fire.
Extinguishing Media: Dry powder, foam, CO₂; in case of large fires, water spray should be used.
Personal Protective Equipment: Wear self-contained breathing apparatus (pressure-demand MSHA-NIOSH approved or equipment) and full protective gear.
In case of fire: Formation of carbon monoxide, nitrogen oxide, isocyanate vapour, and traces of hydrogen cyanide is possible.

6. ACCIDENTAL RELEASE MEASURES

Do not empty into drains. Remove sources of fire, ensure adequate ventilation / exhaust ventilation. Keep unauthorized persons away.

Remove mechanically; cover remainders with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one-hour transfer to waste container and do not seal. Keep damp in a safe ventilated area for several days.

Further disposal by incineration.

Personal Precautions: Avoid contacts with the skin and the eyes.

Environmental Precautions: Do not let product enter drains.

Procedures for Cleaning Up: Soak up immediately with inert absorbent material (e.g. sand, earth). Transfer liquids and solid material to separate suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Keep away from heat and source of ignition. General industrial hygiene practice. Keep away from nitric acid. The vapor is heavier than air.

Storage: Keep containers tightly closed in a cool and well-ventilated place. Avoid exposure to temperature above 50°C. Ensure adequate ventilation or exhaust ventilation in the work area.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: An air-fed mask, or short periods of work, a combination of charcoal filter and particulate filter is recommended.

Hand Protection: Rubber or PCC plastic gloves.

Eye Protection: Chemical splash goggles, face shields.

Skin and Body Protection: Light weight protective clothing.

Hygiene Measures: Keep away from food stuffs, drink and tobacco. Wash hands before breaks and at end of work. Keep working clothes separate. Take off immediately all contaminated clothing.



HYGIENE PRACTICES: Good personal hygiene practices are required at all times when handling chemicals. These practices including, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and especially of contamination occurs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Colour: Slightly Yellowish Clear

Odour Characteristic: Smell of Solvent

Flash Point: Approx. 30°C

Viscosity: Approx. 30 sec. At 25°C (Ford cup #4)

Specific Gravity (Water = 1): Approx. 1.05 g/cm² at 25°C

Initial Boiling Point: 135°C

Solubility in Water: Insoluble

pH Value: Not Applicable

Ignition Temperature: Approx. 45°C

10. STABILITY AND REACTIVITY

Thermal Decomposition: Value not determined.

Hazardous Reactions: Exothermic reaction with amines and alcohols; reacts slowly with water forming CO₂, in closed containers risk of bursting owing to increase of pressure.

Hazardous Decomposition Products:

Not hazardous decomposition products when stored and handled correctly.



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11. TOXICOLOGICAL INFORMATION

Toxicological Tests carried out on another form supplied.

Skin and mucous membrane compatibility, rabbit:

Skin 4 hours exposure – slightly irritant.

Eyes:

Non – irritant (Tested according to OECD Guidelines No. 404 and No.405).

Long term contact with skin:

Tanning and irritating effects are possible.

Over – exposure, especially during spraying operations without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract.

Acute toxicity:

LD50 oral, rat:

More than 5000 mg/kg.

Skin and mucous membrane compatibility, rabbit:

Skin 4 hours exposure – no findings.

Eyes – no findings.

(OECD – Guidelines for Testing of Chemicals, No.404 and No.405) (1997)

Aromatic hydrocarbons, such as Xylene, irritate the skin and mucous membranes and are narcotic if inhaled in high concentrations.

Special Properties / Effects:

Over – exposure, especially during spraying operations without the necessary precautions, entails the risk of concentration – dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hyper – sensitivity (difficult breathing, coughing, asthma) are possible, Hypersensitive persons may suffer from these effects even at low isocyanate concentrations including concentrations below the German control limit (MAK – value). In case of longer contact with skin, tanning and irritating effects are possible.

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12. ECOLOGICAL INFORMATION

Do not allow to escape into water, wastewater or soil.

The product reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water soluble solvents.

13. DISPOSAL CONSIDERATIONS

Waste form residues / unused products:

Solidify unexposed surplus and dispose of together with processed material as cured plastic waste – in accordance with local and national regulations.

Contaminated packing:

Empty containers may be disposed of after neutralizing any product remaining on the walls of the container with a mixture of isopropanol, ammonia and water. Afterwards, remove warning labels.

14. TRANSPORT INFORMATION

GGVSee / IMDG Code:	3.3	UN no.:	1866	MFAG:	310	EmS:	3
PG:	III	MPO:	No				
GGVE / GGVS:	Class 3	No.:	31C				
RID / ADR:	Class 3	No.:	31C				
ADNR:	Class 3	No.:	31C				
Cat:	ICAO / IATA – DGR: 3 1866 III						

Declaration for land shipment: 1866, Harzloesung

Declaration for sea shipment: Resin Solution

Declaration for shipment by air: Resin Solution

Other Information: Flammable, Flash Point +30°C. Keep dry, slightly smelling. Keep separated from foodstuffs.

15. OTHER INFORMATION

Recommended use: For Decorative Paint.

Recommended Restrictions: Use only in well – ventilated area.

This information contain herein relates only to the specific material identified. The company believes than such information is accurate and reliable as of the date of this safety date sheet, but no representation, guaranty, expressed or implied, is made as to the accuracy, or completeness of the information.