
MATERIAL SAFETY DATA SHEET*

IDENTITY (as used on label and list): **Transprene 113M - Neoprene Glue
Zodiac Glue 7098 and 7170**
MANUFACTURER'S NAME & ADDRESS: Bostik SA, R.N. 19 77170 Coubert, France
EMERGENCY NO. Air Pack - USA 1-800-626-7225
INFORMATION NO. (33) 1.64.92.12.12
DATE PREPARED: January 1994

SECTION II - Hazardous Ingredients

| | | | | | |
|-----------------------|---------|-------------|---------------|---------|---------------------|
| Hazardous Components: | MEK | Cyclohexane | Ethyl Acetate | Toluene | Polychloropene (CR) |
| ACGIH TLV | 200 ppm | 300 ppm | 400 ppm | 100 ppm | |
| %: | 20% | 30% | 20% | 5% | 25% |

SECTION III - Physical/Chemical Characteristics

Boiling Point: 70 degrees C
Vapor Pressure (mm Hg): 110 mbar (at 20 degrees C)
Vapor Density: (ALR-1): 3
Specific Gravity (H2O - 1): 0.86
Evaporation Rate (Butyl Acetate - 1) Approx. -500
Appearance and Odor: Clear sandy, solvent smelling

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used): -17 degrees C (closed cup)
Extinguishing Media: Powder, CO2, Foam
LEL: 1.1%
UEL: 12%

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MSDS - ZODIAC Glue 7098 and 7170 (cont)

SECTION V - Reactivity Data

| | |
|-------------------------------------|-----------------|
| Stability: | Stable |
| Conditions to Avoid: | Overheating |
| Hazard Decomposition or Byproducts: | CO-CO2-HCL |
| Hazard Polymerization: | Will not occur. |

SECTION VI - Health Hazard Data

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|-------------------------------------|--|
| Routes of Entry: | Inhalation, skin and ingestion |
| Health Hazards (acute and chronic): | Dermal irritation. Effects of over exposure are narcotic. |
| Carcinogenicity: | NTP - No, IARC Monographs - No, OSHA Reg. - No |
| Signs and Symptoms of Exposure: | Irritating to skin, eyes and respiratory tract |
| Emergency and First Aid Procedures: | Breathe fresh air. In case of contact with skin, eyes wash immediately with abundant soap and water. See a doctor immediately if ingested. |

SECTION VII - Precautions for Safe Handling and Use

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|--|---|
| Steps to be Taken in Case Material is Released or Spilled: | Keep away from fire. Avoid spilling and dripping. Mop up with absorbant materials (sand, sawdust). Residue must be kept in a tightly-closed drum. |
| Waste Disposal Method: | Incinerate wastes in an approved place. |

SECTION VIII - Control Measures

| | |
|-------------------------|-----------------------|
| Respiratory Protection: | Recommended |
| Protective Gloves: | Yes |
| Eye Protection: | Yes |
| Work/Hygenic Practices: | Wash hands after use. |

MATERIAL SAFETY DATA SHEET*

IDENTITY (as used on label and list):

Vynacol 1520 - Polyurethane Glue
Glue 7020 - 7096 - 7097

MANUFACTURER'S NAME & ADDRESS:

Bostik SA, R.N. 19 77170 Coubert, France

EMERGENCY NO.

Air Pack - USA 1-800-626-7225

INFORMATION NO.

(33) 1.64.92.12.12

DATE PREPARED:

January 1994

SECTION II - Hazardous Ingredients

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|-----------------------|---------|----------|--------|---------|--------------|
| Hazardous Components: | MEK | Acetone | DMF | Toluene | Polyurethane |
| ACGIH TLV | 200 ppm | 1000 ppm | 10 ppm | 100 ppm | |
| %: | 25% | 50% | 2% | 3% | 20% |

SECTION III - Physical/Chemical Characteristics

| | |
|--------------------------------------|-------------------------------|
| Boiling Point: | 56 degrees C |
| Vapor Pressure (mm Hg): | 180 mbar (at 20 degrees C) |
| Vapor Density (AIR - 1): | 3 |
| Specific Gravity (H2O - 1): | 0.83 |
| Evaporation Rate (Butyl Acetate - 1) | Approx. -500 |
| Solubility in Water: | Partially |
| Appearance and Odor: | Opalescent - Solvent Smelling |

SECTION IV - Fire and Explosion Hazard Data

| | |
|----------------------------|----------------------------|
| Flash Point (Method Used): | -17 degrees C (closed cup) |
| Extinguishing Media: | CO2 - Foam - Powder |
| LEL: | 2.5% |
| UEL: | 12.5% |

* This information taken from approved OSHA form and reformatted for this manual only. Originals available upon request.

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MSDS - ZODIAC Glue 7020 - 7096 - 7097 (cont)

SECTION V - Reactivity Data

| | |
|-------------------------------------|-----------------|
| Stability: | Stable |
| Conditions to Avoid: | Overheating |
| Hazard Decomposition or Byproducts: | CO-CO2-HCN |
| Hazard Polymerization: | Will not occur. |

SECTION VI - Health Hazard Data

| | |
|-------------------------------------|--|
| Routes of Entry: | Inhalation, skin and ingestion |
| Health Hazards (acute and chronic): | Dermal irritation. Effects of over exposure are narcotic. |
| Carcinogenicity: | NTP - No, IARC Monographs - No, OSHA Reg. - No |
| Signs and Symptoms of Exposure: | Irritating to skin, eyes and respiratory tract. |
| Emergency and First Aid Procedures: | Breathe fresh air. In case of contact with skin, eyes wash immediately with abundant soap and water. See a doctor immediately if ingested. |

SECTION VII - Precautions for Safe Handling and Use

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|--|---|
| Steps to be Taken in Case Material is Released or Spilled: | Keep away from fire. Avoid spilling and dripping. Mop up with absorbant materials (sand, sawdust). Residue must be kept in a tightly-closed drum. |
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|------------------------|---|
| Waste Disposal Method: | Incinerate wastes in an approved place. |
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SECTION VIII - Control Measures

| | |
|-------------------------|-----------------------|
| Respiratory Protection: | Recommended |
| Protective Gloves: | Yes |
| Eye Protection: | Yes |
| Work/Hygenic Practices: | Wash hands after use. |

MATERIAL SAFETY DATA SHEET*

IDENTITY (as used on label and list): **Desmodur RF or Fixdur B E - P/N 7123
Accelerator for 7096/7097/7098 Glues**
MANUFACTURER'S NAME & ADDRESS: Bostik SA, R.N. 19 77170 Coubert, France
EMERGENCY NO. Air Pack - USA 1-800-626-7225
INFORMATION NO. (33) 1.64.92.12.12
DATE PREPARED: January 1994

SECTION II - Hazardous Ingredients

| | | |
|-----------------------|---------------|----------------|
| Hazardous Components: | Ethyl Acetate | Polyisocyanate |
| ACGIH TLV: | 400 ppm | |
| %: | 73% | 27% |

SECTION III - Physical/Chemical Characteristics

| | |
|--------------------------------------|--|
| Boiling Point: | 77 degrees C |
| Vapor Pressure (mm Hg): | 97 mbar (at 80 degrees C) |
| Specific Gravity (H2O - 1): | 1.0 |
| Evaporation Rate (Butyl Acetate - 1) | Approx. -700 |
| Appearance and Odor: | Yellow to brownish liquid - ether smelling |

SECTION IV - Fire and Explosion Hazard Data

| | |
|----------------------------|---------------------------|
| Flash Point (Method Used): | -3 degrees C (closed cup) |
| Extinguishing Media: | Powder, CO2, Halon |
| LEL: | 2.1% |
| UEL: | 11.5% |

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Originals available upon request.

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MSDS - ZODIAC 7098 Glue Accelerator (cont)

SECTION V - Reactivity Data

| | |
|-------------------------------------|-----------------|
| Stability: | Stable |
| Conditions to Avoid: | Over heating |
| Hazard Decomposition or Byproducts: | CO-CO2-HCN |
| Hazard Polymerization: | May occur |
| Conditions to Avoid: | Water, moisture |

SECTION VI - Health Hazard Data

| | |
|-------------------------------------|--|
| Routes of Entry: | Inhalation, skin and ingestion |
| Health Hazards (acute and chronic): | Vapors irritate respiratory track. Contact irritates eyes/skin. |
| Carcinogenicity: | NTP - No, IARC Monographs - No, OSHA Reg. - No |
| Signs and Symptoms of Exposure: | Irritating to skin, eyes and respiratory tract. |
| Emergency and First Aid Procedures: | Breathe fresh air. In case of contact with skin, eyes wash immediately with abundant soap and water. See a doctor immediately if ingested. |

SECTION VII - Precautions for Safe Handling and Use

| | |
|--|--|
| Steps to be Taken in Case Material is Released or Spilled: | Keep away from fire. Avoid spilling and dripping. Mop up with absorbant materials (sand, sawdust). Residue must be treated like waste. |
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| | |
|------------------------|---|
| Waste Disposal Method: | Incinerate wastes in an approved place. |
|------------------------|---|

SECTION VIII - Control Measures

| | |
|-------------------------|-----------------------|
| Respiratory Protection: | Recommended |
| Protective Gloves: | Yes |
| Eye Protection: | Yes |
| Work/Hygenic Practices: | Wash hands after use. |

MATERIAL SAFETY DATA SHEET*

| | |
|---------------------------------------|---|
| IDENTITY (as used on label and list): | Latex 60% - Zodiac Latex Liquid, P/N 7074 |
| MANUFACTURER'S NAME & ADDRESS: | CECA SA, Cedex 54, E-92062 Paris La Defense, France |
| EMERGENCY NO. | Air Pack - USA 1-800-626-7225 |
| INFORMATION NO. | (33) 1.47.96.90.90 |
| DATE PREPARED: | May 18, 1994 |

SECTION II - Hazardous Ingredients

| | |
|-----------------------|---------------|
| Hazardous Components: | Ammonia |
| OSHA PEL: | 18 mg/m3 |
| %: | Less than 0.5 |

SECTION III - Physical/Chemical Characteristics

| | |
|-----------------------------|--------------------------------------|
| Boiling Point: | 100 degrees C |
| Vapor Pressure (mm Hg): | 760 |
| Specific Gravity (H2O = 1): | 0.95 |
| Melting Point: | N/A |
| Solubility in Water: | Entirely miscible |
| Appearance and Odor: | Viscous White Liquid - Odor, Ammonia |

SECTION IV - Fire and Explosion Hazard Data

| | |
|-------------------------------------|------------------------------------|
| Flash Point (Method Used): | N/A |
| Extinguishing Media: | Water, foam, carbon dioxide |
| Special Fire-fighting Procedures: | Wear suitable breathing apparatus. |
| Unusual Fire and Explosion Hazards: | Possibility of toxic smokes |

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Originals available upon request.

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MSDS - ZODIAC Latex Liquid, P/N 7074

SECTION V - Reactivity Data

| | |
|--------------------------------------|--|
| Stability: | Stable |
| Conditions to Avoid: | Freezing and heating under normal conditions |
| Incompatibility (material to avoid): | Acids, alcohols, salts |
| Hazard Decomposition or Byproducts: | Toxic or irritating vapors or smokes |
| Hazard Polymerization: | May occur. |

SECTION VI - Health Hazard Data

| | |
|-------------------------------------|--|
| Routes of Entry: | Inhalation, skin and ingestion |
| Health Hazards (acute and chronic): | Do not ingest. |
| Carcinogenicity: | NTP No IARC Monographs No |
| Signs and Symptoms of Exposure: | Slight irritation to skin, eyes and respiratory tract. |
| Emergency and First Aid Procedures: | Breathe fresh air. If contact with skin or eyes, wash immediately with soap and water. |

SECTION VII - Precautions for Safe Handling and Use

| | |
|--|--|
| Steps to be Taken in Case Material is Released or Spilled: | Spillage should be contained and covered with sawdust or equivalent. |
| Waste Disposal Method: | Incinerate wastes in an approved place. |
| Precautions to be Taken in Handling and Storing: | Keep container in a well-ventilated place. |
| | Keep away from frost and heat. |
| Other Precautions: | If large spillage, coagulate with aluminum sulfate, then burn the residue. |

SECTION VIII - Control Measures

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|---|---|
| Ventilation: | Local exhaust |
| Protective Gloves: | Rubber Gloves |
| Eye Protection: | Goggles |
| Other Protective Clothing or Equipment: | Eye-shower |
| Work/Hygenic Practices: | Avoid prolonged contact with skin and eyes. |
