

This Material Safety Data Sheet packet contains the MSDS for the product listed below:

BOSS[®] 352 Urethane Acrylic Adhesive Sealant – Colors

BOSS[®] 352 Urethane Acrylic Adhesive Sealant – Clear

These two products have different formulations. Please confirm that you have the proper MSDS for the product being used.

MSDS Document

Product BOSS® 352 Urethane Acrylic Adhesive Sealant - colors

1. Chemical Product and Company Identification

Trade Name of this Product BOSS® 352 Urethane Acrylic Adhesive Sealant - colors

MSDS ID BOSS352

Manufacturer

Accumetric, LLC

350 Ring Road

Elizabethtown, KY 42701

Phone Number

(270) 769-3385

Emergency Phone

CHEMTREC (800) 424-9300

Revision Date 9/8/2006

Health:	1
Fire:	0
Reactivity:	0
Specific	

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Ethylene Glycol	107-21-1	< 1.0 %	50 mg/m3	40 ppm	40 ppm
Distillates (petroleum), hydrotreated middle	64742-46-7	< 2.0 %	5 mg/m3	5 mg/m3	10 mg/m3

3. Hazard Identification

Health Hazards

The principle volatile component is water. Minor volatile components from the emulsion may cause headache and nausea. Prolonged and repeated skin contact can cause irritation. Treatment of overexposure should be directed at the control of symptoms and clinical condition.

Eye Contact

Direct contact may cause moderate irritation.

Skin Contact

No significant effects expected from a single short-term exposure.

Inhalation

Trace component and residual monomer may cause headache, nausea, and irritation of the

nose, throat, and lungs in poorly ventilated areas.

Ingestion

No significant effects expected from a single short term exposure.

Existing Conditions Aggravated by Exposure

No known applicable information.

Symptoms of Overexposure

No known applicable information.

Note

The above listed potential effects are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for detailed toxicology information.

4. First Aid Information

Eye Contact

Immediately flush with large amounts of water. If irritation occurs, seek medical attention.

Skin Contact

Wash affected area with soap and water.

Inhalation

Remove to fresh air. Seek medical attention if irritation persists.

Ingestion

No first aid should be needed.

5. Fire Fighting Measures

Flash Point	Not determined
LEL	0.9
UEL	15.3

Extinguishing Media

Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

Flammability: TDGR Class

Sensitivity to impact

Sensitivity to static discharge

Special Fire Fighting Procedures

Non-flammable (aqueous emulsion). After water evaporates, remaining material will burn.

Breathing apparatus required when fighting fires in enclosed areas.

Unusual Fire or Explosion Hazards

Product will not burn, but may splatter if temperature exceeds boiling point of water. Dried solids can burn, giving off oxides of carbon.

6. Accidental Release Measures

Steps to be taken in case of spill or release

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. For small spills, wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled material, even in small quantities, may present a slip hazard. Final cleaning may require the use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

7. Handling and Storage

Handling

Avoid breathing vapors in top of shipping container. Keep container closed. Use with adequate ventilation. Avoid contact with skin and clothing. Wash thoroughly after handling.

Storage

Store in a cool dry place. Protect from freezing and excessive heat.

8. Exposure Controls and Personal Protection

Engineering Controls

Local Ventilation: Recommended
General Ventilation: Recommended

Eye Protection

Chemical goggles if liquid contact is likely, or safety glasses with side shields.

Skin Protection

Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves:
Silver Shield® 4H®

Respiratory Protection

Use respiratory protection unless adequate exhaust ventilation is provided or exposure assessment demonstrates that exposures are within exposure guidelines. Industrial

Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator:

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Ventilation

Local exhaust ventilation is recommended to maintain vapor level below TLV.

Note

These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com).

9. Physical and Chemical Properties

Physical State	Paste
Specific Gravity	1.5
Color/Appearance	Various
Odor	Slight acrylic odor
Boiling/Cond. Point	100C
Melting/Freezing Point	0C
Solubility	Dilutable in wet stage
Evaporation Rate	Slower than n-Butyl acetate
VOC %	13.5 g/L
Percent Volatile	19%
Vapor Density	Lighter than air
Vapor Pressure	Not determined

Note

The above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.

10. Stability and Reactivity

Chemical Stability

Stable

Hazardous Polymerization

Will not occur

Conditions to Avoid

None known

Materials to Avoid / Incompatibility

None known

11. Toxicological Information

Carcinogenicity

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Special Hazard Information on Components

No known applicable information.

Component Toxicology Information

No known applicable information.

12. Ecological Information

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

13. Disposal Considerations

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? NO

State or local laws may impose additional regulatory requirements regarding disposal.

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

14. Transportation Information

DOT Road Shipment Information

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

15. Regulatory Information

The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR

1910.1200.

TSCA Status

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA Title III Section 302 Extremely Hazardous Substances

None

SARA Title III Section 304 CERCLA Hazardous Substances

None

SARA Title III Section 311/312

No components subject to 40 CFR 370

California Proposition 65

This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm:

None known

16. Other Information

Disclaimer

The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements to suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

MSDS Document

Product BOSS® 352 Urethane Acrylic Adhesive Sealant - clear

1. Chemical Product and Company Identification

Trade Name of this Product **BOSS® 352 Urethane Acrylic Adhesive Sealant - clear**

MSDS ID **BOSS352cl**

Manufacturer

Accumetric, LLC
350 Ring Road
Elizabethtown, KY 42701

Phone Number

(270) 769-3385

Emergency Phone

CHEMTREC (800) 424-9300

Revision Date 9/22/2006

Health:	0
Fire:	0
Reactivity:	0
Specific	

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Ethylene Glycol	107-21-1	< 1.0 %	50 mg/m3	40 ppm	40 ppm
Xylene	1330-20-7	< 0.3 %	100 ppm	100 ppm	150 ppm

3. Hazard Identification

Health Hazards

The principle volatile component is water. Minor volatile components from the emulsion may cause headache and nausea. Prolonged and repeated skin contact can cause irritation. Treatment of overexposure should be directed at the control of symptoms and clinical condition.

Eye Contact

Direct contact may cause moderate irritation.

Skin Contact

No significant effects expected from a single short-term exposure.

Inhalation

Trace component and residual monomer may cause headache, nausea, and irritation of the nose, throat, and lungs in poorly ventilated areas.

Ingestion

No significant effects expected from a single short term exposure.

Existing Conditions Aggravated by Exposure

No known applicable information.

Symptoms of Overexposure

No known applicable information.

Note

The above listed potential effects are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for detailed toxicology information.

4. First Aid Information**Eye Contact**

Immediately flush with large amounts of water. If irritation occurs, seek medical attention.

Skin Contact

Wash affected area with soap and water.

Inhalation

Remove to fresh air. Seek medical attention if irritation persists.

Ingestion

No first aid should be needed.

5. Fire Fighting Measures

Flash Point	Not applicable
LEL	0.9
UEL	15.3

Extinguishing Media

Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

Flammability: TDGR Class

Sensitivity to impact

Sensitivity to static discharge

Special Fire Fighting Procedures

Non-flammable (aqueous emulsion). After water evaporates, remaining material will burn. Breathing apparatus required when fighting fires in enclosed areas.

Unusual Fire or Explosion Hazards

Product will not burn, but may splatter if temperature exceeds boiling point of water. Dried solids can burn, giving off oxides of carbon.

6. Accidental Release Measures

Steps to be taken in case of spill or release

Restrict area to only those personnel needed. Major spills should be collected for disposal. Minor spills may be flushed to sewer if permitted by state, federal and local regulations.

7. Handling and Storage

Handling

Avoid breathing vapors in top of shipping container. Keep container closed. Use with adequate ventilation. Avoid contact with skin and clothing. Wash thoroughly after handling.

Storage

Store in a cool dry place. Protect from freezing and excessive heat.

8. Exposure Controls and Personal Protection

Eye Protection

Safety goggles or glasses with side shields are recommended.

Skin Protection

Impervious gloves are suggested.

Ventilation

Good general ventilation should be sufficient.

Respiratory Protection

If engineering controls do not maintain airborne concentrations of hazardous ingredients below TLV, then a NIOSH/MSHA approved organic vapor respirator should be used. Not required under normal usage and adequate ventilation.

Note

These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com).

9. Physical and Chemical Properties

Physical State	Paste
Specific Gravity	1.06
Density lbs/Gal.	8.85
Color/Appearance	Clear
Odor	Acrylic odor
Boiling/Cond. Point	212F
Melting/Freezing Point	32F
Solubility	Dilutable in wet stage
Evaporation Rate	Slower than n-Butyl acetate

VOC %	13.5 g/L
Percent Volatile	37%
Vapor Density	Lighter than air
Vapor Pressure	Not determined

Note

The above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.

10. Stability and Reactivity

Chemical Stability

Stable

Hazardous Polymerization

Will not occur

Conditions to Avoid

None known

Materials to Avoid / Incompatibility

None known

11. Toxicological Information

Special Hazard Information on Components

No known applicable information.

Component Toxicology Information

No known applicable information.

Carcinogenicity

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

12. Ecological Information

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

13. Disposal Considerations

Waste Disposal Method

We make no guarantee or warranty of any kind that the use or disposal of this product

complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations, but contains SARA regulated substances. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

14. Transportation Information

DOT Road Shipment Information

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

15. Regulatory Information

The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA Title III Section 302 Extremely Hazardous Substances

None

SARA Title III Section 304 CERCLA Hazardous Substances

Ethylene Glycol (107-21-1)
Xylene (mixed isomers) (1330-20-7)

SARA Title III Section 311/312

No components subject to 40 CFR 370

SARA Title III Section 313 Toxic Chemicals

Ethylene Glycol (107-21-1)
Xylene (mixed isomers) (1330-20-7)

California Proposition 65

This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm:

None known

New Jersey

Ethylene Glycol (107-21-1)

Xylene (mixed isomers) (1330-20-7)

Pennsylvania

Ethylene Glycol (107-21-1)

Xylene (mixed isomers) (1330-20-7)

16. Other Information

Disclaimer

The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements to suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.