

MSDS Document

Product BOSS® 103 Cyanoacrylate Plastic Adhesive

1. Chemical Product and Company Identification

Trade Name of this Product BOSS® 103 Cyanoacrylate Plastic Adhesive

Synonyms: 02209CL01, 03307CL09

MSDS ID BOSS103

Manufacturer

Accumetric, LLC
350 Ring Road
Elizabethtown, KY 42701

Phone Number

(270) 769-3385

Emergency Phone

CHEMTREC (800) 424-9300

Revision Date 12/17/2009



Health:	2
Fire:	2
Reactivity:	1
Specific	

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Ethyl-2-Cyanoacrylate	7085-85-0	80% - 95%	0.2 ppm	None	
Poly Methyl Methacrylate	9011-14-7	5% - 10%			

3. Hazard Identification

Primary Routes of Entry

Inhalation

Eye Contact

Direct contact may cause moderate irritation.

Skin Contact

Skin contact may cause burns. Bonds rapidly and strongly to skin.

Ingestion

Estimated oral LD50 more than 5000 mg/kg.

Symptoms of Overexposure

Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and/or repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing Conditions Aggravated by Exposure

No known applicable information.

4. First Aid Information

Inhalation

Remove to fresh air. If symptoms persist, obtain appropriate medical attention.

Skin Adhesion

First immerse the bonded surfaces in warm, soapy water. Peel off or roll the surfaces open with the end of a blunt edge, such as a spatula or a spoon handle, then remove adhesive with soap and water. Do not try to pull the surfaces apart with a direct opposing action.

Skin Contact

Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Dried adhesive does not present a health hazard even when bonded to the skin. Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear rubber or polyethylene gloves and an apron when handling large amounts of adhesive.

Eyelid adhesion

In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in one to two days. There will be no residual damage. Do not try to pull the surfaces apart with a direct opposing action.

Adhesive in eye

Adhesive introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, usually several hours. This will cause periods of weeping until clearance is achieved. It is important to understand that disassociation will normally occur within a matter of hours, even with gross contamination.

Mouth

If lips are accidentally stuck together apply lots of warm water and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one to two days.

Burns

Cyanoacrylate gives off heat on solidification. In rare cases, large drops will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

Surgery

It should never be necessary to use such drastic action to separate accidentally bonded skin.

5. Fire Fighting Measures

Flash Point 150-200°F
FP Method TCC

Extinguishing Media

Carbon Dioxide, Dry Chemical, Foam

Special Fire Fighting Procedures

Wear self- contained breathing apparatus.

Unusual Fire or Explosion Hazards

Vapors exceeding the flash point will ignite when exposed to flame.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products:

None known

6. Accidental Release Measures

Steps to be taken in case of spill or release

Observe all personal protection equipment recommendations. Flood with water to polymerize. Soak up with inert absorbent. Dispose of saturated absorbent or cleaning materials appropriately. Local, state and federal regulations may apply to releases and disposal of this material, as well as those materials and items employed in cleanup of releases.

7. Handling and Storage

Storage

Store away from heat and direct sunlight to maximize shelf life. Store inside in a dry location.

Handling

Keep container tightly closed. Avoid contact with skin. Avoid breathing vapors.

8. Exposure Controls and Personal Protection

Skin Protection

Polyethylene or non-reactive gloves. Do not use cotton, PVC or wool.

Eye Protection

Safety goggles or glasses with side shields are recommended.

Ventilation

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

Respiratory Protection

No respiratory protection should be needed with good local 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	Liquid
Specific Gravity	1.06
Color/Appearance	Clear
Odor	Sharp, pungent
Boiling/Cond. Point	Greater than 300°F
Solubility	Negligible
Evaporation Rate	Not applicable
Vapor Density	Approximately 3 (Air = 1)
Vapor Pressure	Less than 0.2 mm Hg @ 20°C

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

Polymerized by contact with water, alcohols, amines, and alkalis.

11. Toxicological Information

Component Toxicology Information

No known applicable information.

Special Hazard Information on Components

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

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. 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 found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

SARA Title III Section 302 Extremely Hazardous Substances

None

SARA Title III Section 304 CERCLA Hazardous Substances

None

SARA Title III Section 312 Hazard Class

Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

SARA Title III Section 313 Toxic Chemicals

None present or none present in regulated quantities.

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

Massachusetts

No ingredient regulated by MA Right-to-Know Law present.

New Jersey

None known

Pennsylvania

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.