

MATERIAL SAFETY DATA SHEET

July 2009
Revision From: January 2008

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: RapidFix Adhesive

Product Type: Cyanoacrylate

Company: Boss Products USA
6470 Grand Haven Road, Suite A
Norton Shores. MI. 49441

Emergency Phone Numbers: Boss Products USA 231-798-3600

SECTION 2 – INFORMATION ON COMPONENTS

Chemical Name	CAS Number	Weight %	ACGIH TLV	OSHA PEL	OTHER
Ethyl cyanoacrylate	7085-85-0	95-98	0.2 ppm TWA	None	None
Proprietary	Proprietary	2-5	None	None	None

SECTION 3 – HAZARDS IDENTIFICATION

INGESTION: Not expected to be harmful by means of ingestion. Rapidly polymerizes and bonds in mouth.

SKIN: Bonds skin instantly! May cause skin irritation. Cyanoacrylates, generate heat on polymerization. Large amounts on skin could cause burning. Cured adhesive doesn't present health hazard when bonded to skin.

INHALATION: Exposure to high concentration of vapor above established exposure limit could result in respiratory irritation, breathing difficulty, and/or tightness in chest.

EYES: Will cause irritation and excessive tearing. Eyelids may bond instantly.

HMS RATING: Health – 2 Flammability – 2 Reactivity – 1

SECTION 4 – FIRST AID MEASURES

INGESTION: Product will polymerize rapidly and bond to the mouth making it difficult to swallow. Saliva will separate bonded product in several hours. Make sure breathing passages are unobstructed. Consult medical attention.

SKIN:	Do not pull on bonded skin. Soak in warm, soapy water for several minutes and pick apart with a clean instrument such as tweezers. Peel or roll lips apart, but do not pull directly apart with opposing force.
INHALATION:	In case of exposure to high concentration of vapors, remove person to fresh air. If respiratory irritation persists, seek medical attention.
EYES:	Immediately flush with plenty of water (under eye lids) at least 15 minutes. If eyelids are bonded closed. Release eyelashes with warm water by using a wet pad and soaking the affected area. Do not force eyes open. Keep eye covered until debonding is complete which usually takes 2 – 3 days. Seek medical attention and make sure polymerized product doesn't get trapped behind eyelids which can cause abrasive damage to cornea.

SECTION 5 – FIRE FIGHTING MEASURES

FLASHPOINT:	80°C - 94°C (TCC Method)
AUTOIGNITION TEMPERATURE:	480°C
LOWER EXPLOSIVE LIMITS:	Not determined
HIGHER EXPLOSIVE LIMITS:	Not determined
EXTINGUISHING MEDIA:	Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.
SPECIAL FIRE FIGHTING MEASURES:	Firefighters should wear full protective clothing and self contained breathing apparatus. Thoroughly decontaminate fire fighting equipment and fire fighting apparel after the incident.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Ventilate area well. Flood spills with water to completely polymerize material. Cured material can be scraped from floor and disposed of as non-hazardous waste.

SECTION 7 – HANDLING AND STORAGE

HANDLING:	Avoid all contact with eyes, skin, and clothing. Avoid breathing fumes or vapors. Wash thoroughly after handling. Avoid contact with cloth composed of cotton or paper because these materials will cause rapid polymerization resulting in strong, irritating vapors. Smoke will also be emitted as a result of rapid polymerization. Thermal burns are likely under these conditions.
STORAGE:	Keep in a cool, well-ventilated area away from excessive heat, sources of sparks/ignition, and open flames. Keep containers tightly closed when not in use. Material may be kept in freezer below 0°C for maximum stability. Product should come to room temperature before using.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	If general ventilation is not sufficient to keep vapor concentration below established exposure levels, use local, positive down-draft exhaust.
RESPIRATORY PROTECTION:	A respirator protection program that meets OSHA 1910.134 must be followed whenever workplace conditions warrant the use of a respirator.
SKIN PROTECTION:	Use nitrile gloves and aprons to avoid contact. Do not use PVC, cotton fiber, or nylon materials.
EYE PROTECTION:	Chemical splash safety eyewear with side shields is always recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colorless, liquid
ODOR:	Sharp, irritating
ODOR THRESHHOLD:	< 5 ppm
SPECIFIC GRAVITY:	1.10 @ 25°C
pH:	Not applicable
SOLUBILITY IN WATER:	Polymerizes in presence of water
BOILING POINT:	> 150°C
EVAPORATION RATE:	Not determined
VAPOR PRESSURE:	< 0.3 mm Hg @ 25°C
VAPOR DENSITY:	Not determined
VOLATILE ORGANIC CONTENT:	25 gms/L

SECTION 10 – STABILITY AND REACTIVITY

STABILITY:	This product is stable under normal conditions.
HAZARDOUS POLYMERIZATION:	Will occur in the presence of water, amines, alkaline materials, and alcohols.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.
INCOMPATIBILITY:	Water, amines, alkaline materials, and alcohols.
CONDITIONS TO AVOID:	Environments promoting uncontrolled polymerization such as presence of incompatible materials.

SECTION 11 – TOXICOLOGY INFORMATION

ACUTE ORAL LD50:	>4500 mg/kg (rat)
ACUTE DERMAL LD50:	>2000 mg/kg (rabbit)
NTP CARCINOGEN:	Negative
IARC CARCINOGEN:	Negative
OSHA CARCINOGEN:	Negative

SECTION 12 – ECOLOGICAL INFORMATION

Not known.

SECTION 13 – DISPOSAL INFORMATION

Dispose in accordance with federal, state and local regulations. This product is not classified as RCRA hazardous waste.

SECTION 14 – TRANSPORTATION INFORMATION

Department of Ground Transportation (49 CFR):

Proper Shipping Name:	Combustible liquids, n.o.s. (Cyanoacrylate ester)
Hazard Class / Division:	Combustible liquid
Identification Number:	NA 1993
Packing Group:	III
Exceptions:	(Not more than 450 liters), Unrestricted
Marine Pollutant:	None

International Air Transportation (ICAO/IATA):

Proper Shipping Name:	Aviation regulated liquids, n.o.s. (Cyanoacrylate ester)
Hazard Class / Division:	9
Identification Number:	UN 3334
Packing Group:	None
Exceptions:	Primary packs containing less than 500ml are Unregulated by this mode of transport and may be Shipped unrestricted.

IMO/IMDG Transportation:

Proper Shipping Name:	Unrestricted
Hazard Class / Division:	None
Identification Number:	None
Packing Group:	None
Marine Pollutant:	None

SECTION 15 – REGULATORY INFORMATION

TSCA INVENTORY STATUS:	All components are listed.
SARA SECTION 302:	None
SARA SECTION 311/312:	Immediate/Delayed Health Hazard, Fire, Reactive
SARA SECTION 313:	None

SECTION 16 - OTHER

To the best of our knowledge, the information contained herein is accurate. However, no liability whatsoever is assumed for the accuracy or completeness of the information contained herein. Final determination of suitability of any materials is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.