



MATERIAL SAFETY DATA SHEET - INFATUATED BOND

PRODUCT AND COMPANY IDENTIFICATION

Product Name: INFATUATED BOND

General Use: Adhesives

HAZARDS IDENTIFICATION

GHS Classification

Flammable Liquid Category 4

Pyrophoric Liquids

Not classified

Corrosive To Metals

Not classified

Acute Toxicity (Oral)

Not classified

Acute Toxicity (Dermal)

Not classified

Skin Corrosion/Irritation Category 2

Eye Irritation Category 2B

Respiratory Sensitizer Category 1

Germ Cell Mutagenicity 1B

Carcinogenicity 2

Reproductive Toxicity 1B

Target Organ Systemic Toxicity

3(Respiratory Irritation)

(Single Exposure)

GHS Label Elements

GHS Symbol Exclamation Mark, Health Hazard

GHS Signal Word Danger

HAZARD STATEMENTS

Combustible Liquid.

Causes skin irritation.

Causes eye irritation.

May cause an allergic skin reaction.

May cause genetic defects

Suspected of causing cancer

May damage fertility or the unborn child

May cause respiratory irritation.

Emergency Overview:

Vapor is irritating to eyes, respiratory system, and skin. (R36/37/38)



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Potential Health Effects:

May cause sensitization by inhalation. Narcotic effects, headache, dizziness

Skin: dryness Eye: irritation

Potential Environmental Effects: Not available.

Signs And Symptoms Of Exposure: Vapor is irritating to eyes and mucous membranes above TLV Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing Conditions Aggravated By Exposure: None known

COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	wt%	CAS Registry No.	Chemical Formula
Ethyl cyanoacrylate	70	7085-85-0	CH ₂ C(CN)COOC ₂ H ₅
Alkox2-cyanoacrylate	20%>	21982-43-4	CH ₂ =C(CN)-COOCH ₂ CH ₂
PMMA	9.9	secret	secret
Hydroquinone	0.1	123-31-9	C ₆ H ₄ (OH) ₂

Inventory Status: Ethyl cyanoacrylate

TSCA	Listed
EINECS No.	2303916
RTECS No.	UD3330060
ICSC No.	1358
EC No.	607-236-00-9

FIRST AID MEASURES

Ingestion: Ingestion is not likely. See supplemental page for emergency procedures.

Inhalation: Don't breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer evaluate from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician the breath has stopped, have artificial respiration. If breathing difficulty occurs, have oxygen inhalation.

Skin contact: Remove contaminated clothing. Wash contact areas with soap and much water.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

FIRE FIGHTING MEASURES

Flash Point: above 75 °C(167. F) Cleveland open cup

Autoignition temperature: 485 °C(905. F) Explosive Limits:(%by volume in air) Lower: Not available

(%by volume in air) Upper: Not available

Recommended Extinguishing agents: Carbon dioxide, foam, dry chemical Special firefighting procedures: Not available

Hazardous products formed by fire or thermal decomposition: Irritating organic fragments.



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ACCIDENTAL RELEASE MEASURES

Evacuate non essential personnel.

Shut off all sources of ignition; No fires, smoking or flames in the area.

Ventilate area after material picks up is completed.

For small spills: Absorb spill with inert material (dry cloth, dry sand), then place in a chemical waste container using non-sparking tools.

Flush residual spill (area) with plenty of water.

For large spills: Dike for later disposal. Wash with plenty of water

HANDLING AND STORAGE

Handling:

Keep away from sources of ignition and heat. No smoking or flames in working area.

Take precautionary measures against static discharges.

Avoid contact with skin and eyes. (S24/25)

Wear proper protective equipment Use only in well-ventilated areas.

Use exhaust ventilation to keep air concentration below exposure limit.

Keep container tightly closed when not in use.

Install emergency showers and eyewash facility in the working area

Storage:

Keep away from all possible source of ignition.

Store in a cool, dry, well-ventilated location

Keep container tightly closed Keep away from combustible materials, heat, steam pipe or sunlight.

Keep away from oxidizing materials Other Precautions:

Wash hands, face and gargle after work.

Practice good personal hygiene after using this material, especially before eating, drinking, smoking or using the restroom.

Keep out of reach of children!

EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection (Specify type): Chemical cartridge respirator with organic vapor.

Ventilation Local exhausts

Should be used to control vapors in work area.

Mechanical (General)

Should use a breathing mask.

Protective gloves: Polyethylene gloves, No rubber.

Eye protection Safety glasses, face shield.

Skin protection: Other protective clothing or equipment impervious clothing, apron and boots.

Barrier creams, etc.



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PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black liquid
Odor: Sharp, irritating
Boiling point: above 190 °C(374. F)
Melting point: N/A
Specific gravity (H₂O =1): 0.9 ~ 1.1
Vapor pressure (at25°C): 1Pa
Vapor density (Air =1): 4.5
Evaporation rate (Butyl acetate =1): N/A
Solubility in water: Insoluble (polymerized by water)

STABILITY AND REACTIVITY

Condition to avoid: High humidity, high temperature or direct sunlight.
Stability: Stable (cool and dry area.).
Materials to avoid: Polymerized by contact with water, alcohols, amines, alkalis.
Hazardous decomposition or byproducts: CO₂, oxides and nitrogen and unknown hydrocarbons.

TOXICOLOGICAL INFORMATION

Toxicity: Skin contact may cause burns.
Bond skin rapidly and strongly.
Skin and eye irritant. Ethyl cyanoacrylate Oral LD50: above 5000 mg/ kg in rat. (Acute)Hydroquinone Oral LD50: 302 mg/ kg in rat. (Acute)
Routes of entry: Inhalation (Yes), skin (Yes), Ingestion (Yes)Ingredients which have exposure limits
ACGIH(TLV) OSHA(PEL) OTHER
Ethyl cyanoacrylate 0.2 ppm TWA None None
Hydroquinone 2 mg/m³ TWA 2 mg/m³ TWA 2 mg/m³ TWA
4 mg/m³ STELTarget Organ And Other Health Effects
Literature Referenced Carcinogen
Ingredients Target Organ And Other Health Effects NTP IARC OSHA
Ethyl cyanoacrylate ALG IRR RES No No No
Hydroquinone AC3 BLO BNM CNS EYE IMM IRR LIV MUT No N/A no
Abbreviations: N/A Not applicable AC3 ACGIH animal carcinogen
ALG Allergen BLO Blood
BNM Bonen marrow CNS Central nervous system
EYE Eyes IMM Immune system
IRR Irritant LIV Liver
MUT Mutagen RES Respiratory



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ECOLOGICAL INFORMATION

no data available

DISPOSAL INFORMATION

Waste disposal method: Don't pour drain. Follow domestic and local environmental regulations.

Precautions to be taken in handling and storing: Avoid unnecessary exposure to air and moisture.

Don't store above 25°C and in direct sunlight. Keep container lids tightly closed. Other Precautions: Avoid contact with skin and eyes. Protect eyes, skin, and clothing from contact with the liquid product. Wear recommended equipment.

TRANSPORT INFORMATION

U.S.Department of Transportation Ground Transport (49 CFR 172)

Proper shipping name: Unrestricted (Not more than 450 liters.)

Combustible liquids n.o.s.(Cyanoacrylate ester) (More than 450 liters)

Hazard class or division: Unrestricted (Not more than 450 liters.)Combustible liquids. (More than 450 liters)

Identification number: None (Not more than 450 liters.)

NA1993 (More than 450 liters) Marine pollutant: None.

International Air Transportation (ICA/IATA)

Proper shipping name: Unrestricted

Class or division: Unrestricted

UN or ID number: None

Water Transportation (IMO/IMDG)

Proper shipping name: Unrestricted

Hazard class or division: None

Identification number: None

Marine pollutant: None

REGULATORY INFORMATIONAL

Proportion 65: No California proposition 65 chemicals are known to be present

TSCA 8(b) Inventory Status: All components are listed or are exempt from listing on Toxic

Substances Control Act Inventory. EINECS All components are listed on EINECS OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2 Fire Hazard: 2

Reactivity Hazard: 1 Specific Hazard: Does not apply

Estimated HMIS(R) Code: Health Hazard: 2

Flammability Hazard: 2

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