

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: Sky Plus Adhesive

General Use: Adhesive

2. 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)

Potential Health Effects:

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

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: Unknown

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	wt%	CAS Registry No.		Chemical Formula
Ethyl cyanoacrylate		89	7085-85-0	CH ₂ C(CN)COOC ₂ H ₅
PMMA	6.99	secret	secret	
Hydroquinone	0.01	123-31-9		C ₆ H ₄ (OH) ₂
Carbon black	4	1333-86-4		

Inventory Status: Ethyl cyanoacrylate

TSCA	Listed
EINECS No.	2303915
RTECS No.	UD3330050
ICSC No.	1358
EC No.	607-236-00-9

4. 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). (S23)

Evacuate from further exposure. If unconsciousness occurs, seek immediate medical assistance

and call a physician.

If 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. (S26)

5. 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.

Unusual fire or explosion hazards: None

6. ACCIDENTAL RELEASE MEASURES

Evacuate non essential personnel.

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

Ventilate area after material pick up is completed.

For small spills: Absorb spill with inert material (dry cloth, dry sand), then place in

a chemical waste containers using non-sparking tools. Flush residual spill (area) with plenty of water.

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

7. 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 eye wash facility in 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 rest room.

Keep out of reach of children. (S2)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ventilation Local exhausts

Should be used 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brack 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)

10. 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, alkalies.

Hazardous decomposition or by products: CO₂, oxides and nitrogen and unknown hydrocarbons.

11. 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 STEL

Target 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

12. ECOLOGICAL INFORMATION

No data available

13. 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 liquid product. Wear recommended equipment.

14. 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

15. REGULATORY INFORMATION

CA Proposition 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

16. 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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