

UNITED BEAUTY

Safety Data Sheet

Issue Date: 08/05/09 Revision Number: 1
Material/Trade Name: Fusion Plus Monomer

1. Substance Identification

Material/Trade Name : 25006 & 25007 – Fusion Plus Monomer
Chemical Name : N/A
Family : Monomer
Product Use : Nail Liquid
Company : United Beauty Products Ltd
Address : Princewood Road
Corby
Northants
NN17 4AP
Telephone : 01536 463350
Fax : 01536 463390
Emergency Telephone : **01536 463350**
Email : sales@unitedbeauty.co.uk

2. Hazard Identification

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

- **Flammable liquid and vapor!**
- May cause eye irritation.
- May cause skin irritation.
- Avoid prolonged or repeated breathing of gases, vapors or mists.
- Please read entire MSDS for additional information.



Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry Inhalation , skin , eyes

Eye Vapor concentrations may cause irritation of eyes. Liquid contact with eyes can cause irritation and possible corneal damage.

Skin Liquid concentration may cause moderate skin irritation. Repeated or prolonged contact may cause allergic skin rashes, itching and swelling which becomes evident on re-exposure to this product.

Ingestion Causes irritation, a burning sensation of the mouth, throat and respiratory tract and abdominal pain.

Inhalation High vapor concentrations may irritate the respiratory system. Prolonged exposure can lead to headaches , nausea , drowsiness and unconsciousness.

Sub-Chronic Effects Unlikely to present a cancer hazard in man.

NOTE: Refer to Section 11, Toxicological Information for Details

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3. Composition

| Chemical Identity | CAS Numbers | EINECS# | INCI Name | Exposure OSHA TWA/STEL | Limits ACGIH TWA/STEL | Carcinogen IARC/NTP/OSHA | % |
|--|---|-----------|--------------------------|------------------------|-----------------------|--------------------------|-------|
| Ethyl Methacrylate | 97-63-2 | 202-597-5 | Ethyl methacrylate | N/E | N/E | Not Listed | 60-65 |
| Tetraethylene glycol dimethacrylate | 109-17-1 | 203-653-1 | PEG-4 Dimethacrylate | N/E | N/E | Not Listed | 10-15 |
| Ethylene Glycol Dimethacrylate Esters | 97-90-5 | 202-617-2 | Glycol HEMA-Methacrylate | N/E | N/E | Not Listed | 10-15 |
| 2-hydroxyethyl methacrylate | 868-77-9 | 212-782-2 | HEMA | N/E | N/E | Not Listed | 5-10 |
| N,N-Dimethyl-p-toluidine | 99-97-8 | 202-805-4 | Dimethyltolylamine | N/E | N/E | Not Listed | 0-1 |
| D&C Violet #2 | 81-48-1 | 201-353-5 | CI 60725 | N/E | N/E | Not Listed | 0-1 |
| N/E - None Established N/R - Not Reviewed | N/A - No Data Available N/A - Not Applicable | | | | | | |

Hazard Symbols: Xi F Risk Phrases: R10, R20/22, R36/37/38, R43 Safety Phrases: S7/9, S16, S29, S33, S36/37/39, S45

4. First-aid Measures

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| First Aid for Eye | Flush with water for 15 minutes, including under eyelids. Seek medical help if discomfort persists. |
| First Aid for Skin | Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if discomfort persists. |
| First Aid for Inhalation | Remove to fresh air. If having breathing difficulty, give oxygen. If breathing has stopped, give artificial respiration. Get medical help if discomfort persists. |
| First Aid for Ingestion | Rinse mouth out with water. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person. Seek prompt medical attention. |

5. Fire-fighting Measures

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|----------------------------|-------------------------------|--|
| Flash Point (°F/°C) | Flammable Limit (vol%) | Auto-ignition Temperature (vol %) |
| TAG Closed: 113°F/45°C | N/DA | N/DA |

Method:

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| Extinguishing Media: | Foam, Carbon Dioxide, Dry Chemical or Carbon Tetrachloride. |
| Fire Fighting Instructions: | Wear self-contained breathing apparatus and full protective gear. Water may be ineffective unless used as a fine spray or fog. Use water spray to cool the exposed containers of methacrylate monomer. |
| Unusual Hazards: | Vapors may travel to source of ignition and flash back. Avoid ignition sources or excessive temperatures. Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged aging. |

6. Accidental Release Measures

| | |
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| Spill or Release Procedures: | Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. |
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7. Handling and Storage

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| Handling | Keep away from heat, sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground all metal containers when transferring and use explosion-proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling. |
| Storage | Store in a cool, dry area. Keep container closed when not in use. Store at ambient temperatures out of direct sunlight. Store in a well ventilated place. Store in accordance with National Fire Protection Association recommendations. Maintain air space inside storage containers. Inhibitor requires air (oxygen) contact to function. Check inhibitor levels after 3 months and return to original level. |
| Explosion Hazard | Avoid ignition sources or excessive temperatures. Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged aging. |

8. Exposure Controls

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| Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. |
| Personal Protective Equipment | |
| General | To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC. |
| Eye/ Face Protection | Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying material. |
| Skin Protection | Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Neoprene and Nitrile rubber is better than PVC. |
| Respiratory Protection | A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full face piece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. |

9. Physical and Chemical Properties

| Appearance | Odor & Odor Threshold | pH | Specific Gravity | Viscosity | % Volatile | | |
|----------------------------------|------------------------------|---|-----------------------------------|----------------------------------|---------------------|----------|----------------------------------|
| Clear, violet liquid | sharp ester-like odor | N/A | (H20=1): 0.95 | Slightly more viscous than water | W/W %: 99+ | | |
| Boiling Point/ Freezing Point | Decomposition Temperature | Octanol/Water Partitioning Coefficient Log Po/w | Vapor Pressure: | Vapor Density | Evaporation Rate | Ignition | Solubility In Water (20°C) |
| EMA=243°F | N/A | EMA=1.25 | EMA= mm Hg: 0.69 kPa @ 38°C | (Air=1) EMA: 3.9 | N/DA | N/A | N/DA |
| Flash Point (°F/°C) | | Flammable Limit (vol%) | | Auto-ignition Temperature (vol%) | | | |
| TAG Closed: 113°F/45°C | | N/DA | | N/DA | | | |

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10. Stability and Reactivity

Stability:

Stable

Hazardous Decomposition Products:

Oxides of carbon when burned.

Conditions to Avoid:

Temperatures above 60 F, oxidizing or reducing agents, peroxides and amines, storage in absence of inhibitor, and inadvertent addition of catalyst.

Incompatibility (Materials to Avoid):

Reducing and oxidizing agents and UV light.

Hazardous Polymerization:

May occur

11. Toxicological Information

| Acute Oral Toxicity | Acute Dermal Toxicity | Acute Inhalation Toxicity | Irritation - skin | Irritation - Eye |
|--|--|-------------------------------------|-----------------------------|------------------|
| Oral (Rat) LD50 : 13300mg/kg | Dermal(Rabbit) LD50 : > 9100 mg/kg | Inhalation (Rabbit) LD 50: 3800 ppm | N/DA | N/DA |
| Since this product contains a very low concentration of active components, the primary toxicological information is from the monomers. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals. | | | | |
| Sensitization | Mutagenicity | | Sub-chronic Toxicity | |
| N/DA | Test positive as a mutagen on laboratory animals | | N/DA | |

RTECS#: 97-63-2: OZ4550000
97-90-5: OZ4400000
868-77-9: OZ4725000

12. Ecological Information

| Acute Toxicity to Fish | Acute Toxicity to Invertebrates | Acute Toxicity to Algae | Bioconcentration | Toxicity to Sewage Bacteria |
|------------------------|---------------------------------|-------------------------|------------------|-----------------------------|
| N/DA | N/DA | N/DA | N/DA | N/DA |

Chemical Fate Information

| | |
|------------------------|------|
| Biodegradability | N/DA |
| Chemical Oxygen Demand | N/DA |

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

13. Disposable Considerations

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate.

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

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14. Transport Information

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| DOT (49 CFR 172) | |
| Proper Shipping Name: | Flammable liquids, n.o.s., (ethyl methacrylate, tetraethylene glycol dimethacrylate), 3, UN1993, PGIII |
| Identification Number: | UN1993 |
| Marine Pollutant: | No |
| Special Provisions: | T8, T31 |
| Emergency Response Guidebook (ERG) #: | 128 |
| IATA (DGR): | |
| Proper Shipping Name: | Flammable liquids, n.o.s., (ethyl methacrylate, tetraethylene glycol dimethacrylate), 3, UN1993, PGIII |
| Class or Division: | 3 |
| UN or ID Number: | UN1993 |
| Packaging Instructions: | |
| Emergency Response Guidance (ICAO)#: | |
| IMO (IMDG): | |
| Proper Shipping Name: | Flammable liquids, n.o.s., (ethyl methacrylate, tetraethylene glycol dimethacrylate), 3, UN1993, PGIII |
| Class or Division: | 3.3 |
| UN or ID Number: | UN1993 |
| Special Provisions & Stowage/Segregation: | None |
| Emergency Schedule (EmS)#: | |
| Other Information: | Flash point = 45°C |

15. Regulatory Information

US Federal Regulations

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|------------------------------------|---|
| Clean Air Act: HAP/ODS | This product contains the following hazardous air pollutants (HAP's) as defined by the U. S. Clean Air Act: • NONE This product does not contain any Class1 or Class 2 ODS. |
| Clean Water Act: | This product contains the following Hazardous Substances as defined by the CWA: • NONE This product does not contain any substances that are a Priority Pollutant or Toxic Pollutant under the CWA. |
| FDA: Food Packaging Status | This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food additive. |
| Occupational Safety and Health Act | This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its hazards are: • Immediate (acute) health hazard • Fire hazard. |
| RCRA | This product is considered to be a hazardous waste under RCRA (40 CFR 261) RCRA Code: • Ethyl methacrylate, CAS# 97-63-2, RCRA Code: U118 • Characteristic of Ignitability, RCRA Code: D001 |
| SARA Title III: Section 302 (TPQ) | This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ. |
| SARA Title III: Section 302 (RQ) | This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List). • Ethyl Methacrylate, CAS# 97-63-2, RQ (Lbs): 1000 |
| SARA Title III: Section 311-312: | This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are: • Immediate (acute) health hazard • Fire hazard |
| SARA Title III: Section 313: | This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: • NONE |
| TSCA Section 8(b): Inventory: | This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements. |
| TSCA Significant New Use Rule: | None of the chemicals in this material have a SNUR under TSCA. |

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State Regulations

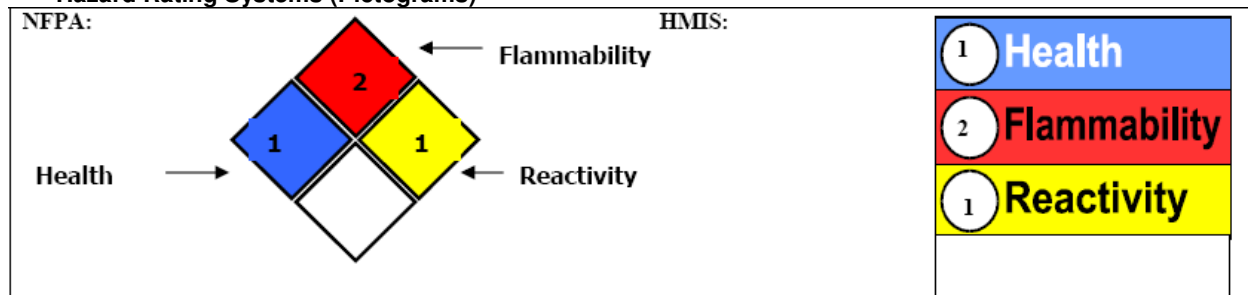
| | |
|--------------------------------------|---------------------------------|
| CA Right-to-Know Law: | NONE |
| California No Significant Risk Rule: | NONE |
| MA Right-to-Know Law: | Ethyl Methacrylate CAS #97-63-2 |
| NJ Right-to-Know Law: | Ethyl Methacrylate CAS #97-63-2 |
| PA Right-to-Know Law: | Ethyl Methacrylate CAS #97-63-2 |
| FL Right-to-Know Law: | Ethyl Methacrylate CAS #97-63-2 |
| MN Right-to-Know Law: | NONE |

International Regulations

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|---|--|
| CDSL: Canadian Inventory (on Canadian Transitional List) | Ethyl methacrylate: DSL regulatory status: Included, WHMIS: B2: flammable liquid D-2B: Toxic Tetraethylene glycol dimethacrylate: DSL regulatory status: Included, WHMIS: N/DA 2-Hydroxypropyl methacrylate: DSL regulatory status: Included, WHMIS: N/DA Ethylene glycol dimethacrylate: DSL regulatory status: Included, WHMIS: N/DA N,N,-Dimethyl-p-toluidine: DSL regulatory status: Included, WHMIS: None |
| EINECS: European Inventory:  | PL Monomer: <ul style="list-style-type: none"> HAZARD SYMBOLS: Xi, F: Irritant, Flammable RISK PHRASES: R10: flammable, R20/22: Harmful by inhalation and if swallowed, R36/37/38: Irritating to eyes, respiratory system and skin, R43: May cause sensitization by skin contact SAFETY PHRASES: S7/9: keep container tightly closed and in a well ventilated place, S16: keep away from sources of ignition- no smoking, S29: do not empty into drains, S33: take precautionary measures against static discharges, S36/37/39: wear suitable protective clothing, gloves and eye/face protection, S45: In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible) |

16. Other Information

Hazard Rating Systems (Pictograms)



The information presented herein was obtained from sources considered to be reliable. However, this information is provided without any warranty, expressed or implied, regarding its correctness or suitability for consumers intended use and/or application. For this and other reasons, we assume no responsibility and expressly disclaim liability for loss, damage or expense arising out of any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared expressly for this product. Use the materials only as directed. If the product is used as a component of another product, the information contained within the MSDS may not be applicable. If one could have any concerns with or problems understanding this MSDS form, please direct all questions to INFOTRAC, Chemical Emergency Resources System at 1(800) 535-5053.

This Safety Data Sheet is complied with reference to regulation 1907/2006/EC and amendments.