



MATERIAL SAFETY DATA SHEET

PRIMER 10

1. PRODUCT IDENTIFICATION / NAME

Product Name UPPER BOND Primer 10
Intended Use Of Product For use as a tape primer
Chemical formula Not Available

2. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient Name and Classification | CAS No. | % | EU Number | EU Classification | EU Nota |
|--|--------------|-------|---------------------|---|---------|
| Cyclohexane | 110-82-7 | 45-50 | EINECS 203-806-2 | F; R11; Xn: R65; Xi: R38; R67; N: R50-53 | 4, 6 |
| Xylene | 1330-20-7 | 25-35 | EINECS 215-535-7 | R10; Xn: R20/21; Xi: R38 | C |
| Ethanol | 64-17-5 | 5-10 | EINECS 200-578-6 | F: R11 | - |
| Ethylbenzene | 100-41--4 | 3-7 | EINECS 202-849-4 | F: R11; Xn: R20 | - |
| 2,5 – Furandione, reaction products with polypropylene, chlorinated | 68609-36-9 | 1-7 | | | |
| Acrylate polymer | Trade Secret | 1-5 | - | - | - |
| Ethyl Acetate | 141-78-6 | 1-5 | EINECS 205-500-4 | F: R11; Xi: R36; R66-67 | 6 |
| Epoxy Resin (reaction product bisphenol A – epichlorhydrin, MW <700) | 25068-38-6 | 0.1-1 | NLP 500-033-5 | Xi: R36/38; R43; N: R51-53 | - |
| Toluene | 108-88-3 | <0.5 | EINECS 203-625-9 | F: R11; Repr.Cat.3: R63; Xn: R48/20-65; Xi: R36; R67 | 4,6 |
| Methanol | 67-56-1 | <0.5 | EINECS 200-659-6 | F: R11; T: R23/24/25- 39/23/24/25 | - |

3. HAZARDS IDENTIFICATION

Risk Phrases:

R11

Highly flammable.

R38

Irritating to skin.

R20/21

Harmful by inhalation and in contact with skin.

R65
R50/53

Harmful: May cause lung damage if swallowed.
Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Contains epoxy resin (reaction product bisphenol A-epichlorhydrin, MW<700). May product an allergic reaction.

4. FIRST -AID MEASURES

Eye Contact: Flush eyes with large amounts of water. If signs/ symptoms persist, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

Ingestion: Do not induce vomiting. Get immediate medical attention. Give victim two glasses of water. Never give anything by mouth to an unconscious person.

5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Use fire extinguishers with class B extinguishing agents (e.g. dry chemical, carbon dioxide).

Unsuitable Extinguishing media: Not specified.

Exposure hazards: Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire: Not determined.

Fire-Fighting Procedures: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment and a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to other sections of this Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Methods for Cleaning up: Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Contain spill. For larger spoils, cover drains and build dykes to prevent entry into sewer systems or bodies of water. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic

absorbent material. Mix in sufficient absorbent until it appears dry.

Cover spill area with fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with a appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep container tightly closed. Avoid inhalation of vapors, mists or spray. Avoid eye contact with vapors, mists or spray.

Vapors may ignite explosively. May cause flash fire. Prevent build-up of vapors – open all windows and doors.

Maintain vapor concentrations below recommended exposure limits. Use only with cross-ventilation.

Without adequate ventilation, vapors may settle in low-lying areas. Keep away from heat, sparks, and open flame. Do not smoke or ignite matches, lighters, etc.

Fire Prevention

Ground containers securely when transferring contents. Water low static or properly grounded shoes. No smoking while handling this material. Extremely flammable liquid and vapor

Explosion Prevention

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention

Avoid static discharge.

Precautions for Safe storage:

Ventilation

Keep container in a well-ventilated area.

Incompatible Materials/ Conditions

Store away from heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended Ventilation:

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers. Use in a well-ventilated area. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

| Ingredient Name: | Exposure Limits: |
|------------------------|--|
| Cyclohexane (110-82-7) | HSE WEL TWA: 350mg/m ³ ; 100ppm HSE WEL STEL: 1050mg/m ³ ; 300 ppm IOELV TWA: 700mg/m ³ ; 200pm |

| | |
|--|--|
| Xylene (1330-20-7) | HSE WEL TWA: 220mg/m ³ ; 50 ppm (skin) HSE WEL STEL: 441mg/m ³ ; 100ppm (skin) IOELV TWA: 221 mg/m ³ ; 50 ppm (skin) IOELV STEL: 442 mg/m ³ ; 100ppm (skin) |
| Ethanol (64-17-5) Ethylbenzene (100-41-4) | HSEE WEL TWA: 1920mg/m ³ ; 1000 ppm HSE WEL TWA: 441 mg/m ³ ; 100 ppm (skin) HSE WEL STEL: 552mg/m ³ ; 125 ppm (skin) IOELV TWA: 442 mg/m ³ ; 100 ppm (skin) IOELV STEL: 884mg/m ³ ; 200 ppm (skin) |
| Ethyl Acetate (141-78-6) | HSE WEL TWA: 200 ppm HSE WEL STEL: 400 ppm |
| Toluene (108-88-3) | HSE WEL TWA: 191 mg/m ³ ; 50 ppm (skin) HSE WEL STEL: 574 mg/m ³ ; 150 ppm (skin) |
| Methanol (67-56-1) | HSE WEL TWA: 266 mg/m ³ ; 20 ppm (skin) HSE WEL STEL: 333 mg/m ³ ; 250 ppm (skin) IOELV TWA: 260 mg/m ³ ; 200 ppm (skin) |

Exposure Controls:

Eye Protection

Avoid eye contact with vapors, mists or spray. The following should be worn alone or in combination, as appropriate, to prevent eye contact: Safety glasses with side shields.

Hand Protection

The following glove material(s) are recommended: Polyvinyl alcohol. Fluoroelastomer.

Skin Protection

Not specified.

Respiratory Protection

Avoid inhalation of vapors, mists or spray.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half face piece or full face air-purifying respirator with organic vapor cartridges.

Ingestion

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep out of the reach of children.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|--|
| Appearance and Odour | Amber colored liquid with a solvent odour. |
| pH | 1 5.5 |
| Boiling point/boiling range | 76.67 – 137.78 0C |
| Melting point/melting range | Not applicable. |
| Flash point | 1 -20.0C (OC) |
| Autoflammability | Not determined |
| Flammable Limits – LEL | 1 1% |
| Flammable Limits – UEL | 1 6% |
| Vapour pressure | 1 9065 Pa (at 25:C) |
| Water Solubility | 1 10% |
| Specific gravity | 1 0.82 (Water=1) |
| Vapour density | 1 0.0043 g/ml (at 100:C) |
| Volatile organic compounds | 1 750 g/l |
| Viscosity | 30 – 40 mPa.s |
| Percent Volatile | 1 94% |

10. STABILITY & REACTIVITY

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

Conditions to avoid:

Heat.

| | |
|---|---|
| Materials to avoid: | Sparks and/or flames. |
| Hazardous Decomposition Products | None know. Carbon monoxide – During Combustion. Carbon dioxide – During Combustion. Hydrogen chloride – During Combustion. |

11. TOXICOLOGICAL INFORMATION

| | |
|---------------------------------------|--|
| Effects from Eye Contact: | Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. |
| Effects from Skin Contact: | May be absorbed through skin and cause target organ effects. Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching and dryness. Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. |
| Effects from Inhalation: | May be absorbed following ingestion and cause target organ effects. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. |
| Effects from Ingestion: | May be absorbed following ingestion and cause target organ effects. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal. |
| Other Effects and Information: | Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Prolonged or repeated exposure may cause: Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. - Kidney/ Bladder Effects: Signs/symptoms may include changes in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination. Carcinogenicity: Contains a chemical or chemicals which can cause cancer. This product contains ethanol. In IARC published Monograph No. 44, entitled, 'Alcoholic Drinking', the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product. Reproductive effects: Contains a chemical or chemicals which can cause birth defects or other reproductive harm. |

12. ECOLOGICAL INFORMATION

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|---|---|
| Environmental Data: | Not determined. |
| Mobility in Soil and Water: | Not determined. |
| Persistence/Biodegradability: | Not determined. |
| Bioaccumulation Potential: | Not determined. |
| Ecotoxicity Data: | Not determined. |
| Ecofate Data: | Not determined. |
| Special statements for 2001/58/EC: | One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicated a low environmental risk. Intended for use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts. Handling this product according to recommendations is important to minimize release to the environment. It is recommended that the environmental information included in this section be used to help determine appropriate handling of this product for your uses. |
| Other Effects and Information: | Product usages, or other lifecycles stages, are expected to be released volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because they contribute towards the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimized to the extent possible. |

13. DISPOSAL CONSIDERATIONS

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|---------------------------------|---|
| Product as Sold: | Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. Combustion products will include HCl. Facility must be capable of handling halogenated materials. |
| Product in Use: | Not determined. |
| Product after Use: | Not determined. |
| Product Packaging: | Not determined. |
| Potential for Recycling: | Not determined. |
| Special Instructions: | Since regulations vary, consult applicable regulations or authorities before disposal. |

14. TRANSPORT INFORMATION

| Regulatory Information | UN number | Proper Shipping Name | Class | Packing Group | Label | Additional Information |
|------------------------|-----------|----------------------|-------|---------------|-------|------------------------|
| IMO Class | UN1866 | Resin Solution | 3 | II | | - |
| ADR Class | UN1866 | Resin Solution | 3 | II | | F1 |
| IATA Class | UN1866 | Resin Solution | 3 | II | | F1 |

15. REGULATORY INFORMATION

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|-------------------|-------------------|
| Symbol(s): | |
| F | Highly flammable. |

| | |
|---------------------------------|--|
| Xn | Harmful. |
| N | Dangerous to environment. |
| Risk Phrases: | |
| R11 | Highly flammable. |
| R38 | Irritating to skin. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| R65 | Harmful: May cause lung damage if swallowed. |
| R50/53 | Very toxic to aquatic organisms. May cause long – term adverse effects in the aquatic environment. |
| Safety Phrases: | |
| S16 | Keep away from sources of ignition – No Smoking. |
| S51 | Use only in well ventilated areas. |
| S23 A | Do not breathe vapour. |
| S24/25 | Avoid contact with the skin and eyes. |
| S36/ 37 | Wear suitable protective clothing and gloves. |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S28B | After contact with skin, wash immediately with plenty of water. |
| S62 | If swallowed, do not induce vomiting; Seek medical advice immediately and show this container label. |
| S60 | This material and/or its container must be disposed of as hazardous waste. |
| S61 | Avoid release to the environment. Refer to special instructions/ safety data sheets. |
| Disclosable Ingredients: | Cyclohexane; Xylene. |
| Product Certifications: | EINECS. |

16. OTHER INFORMATION

Complete list of risk phrases:

R10 – Flammable.
 R11 – Highly flammable.
 R20 – Harmful by inhalation.
 R21 – Harmful in contact with skin.
 R23 – Toxic by inhalation.
 R24 – Toxic in contact with skin.
 R25 – Toxic if swallowed.
 R36 – Irritating to eyes.
 R38 – Irritating to skin.
 R39 – Danger of very serious irreversible effects
 R43 – May cause sensitisation by skin contact.
 R48 – Danger of serious damage to health by prolonged exposure through inhalation.
 R50 – Very toxic to aquatic organisms.
 R51 – Toxic to aquatic organisms.
 R53 – May cause long-term adverse effects in the aquatic environment.
 R63 – Possible risk of harm to the unborn child.
 R65 – Harmful: may cause lung damage if swallowed.

R66 – Repeated exposure may cause skin dryness or cracking.
R67 – Vapors may cause drowsiness or dizziness.

Limitations on Use of Product:

Reissue data/ Reason for reissue:

Regulatory Information:

For industrial and professional use only.

Safety Data Sheet updated to comply with the REACH regulations.

The following UK Regulations as amended may affect the product as supplied:

The Chemicals (Hazard Information and Packaging for supply) Regulations, as amended;

The Carriage of Dangerous Goods (Classification, Packaging and Labeling) and use of Transportable Pressure Receptacles Regulations 1996, as amended;

The Control of Substances Hazardous to Health Regulations 1999 as amended;

The Special Waste Regulations 1996, as amended;

The Environmental Protection Act, 1990, as amended;

The Health and Safety at Work Act, 1974, as amended.

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