

Material Safety Data Sheet Primer Bondex

1. Identification:

Product: 77162

Product Name: Bondex

Family: Nail Primer

Chemical Name: Primer

2. Hazards Identification:

EMERGENCY OVERVIEW

This information may be based on findings from related or similar materials.

Harmful if absorbed through the skin.

• **Combustible liquid and vapor!**

- Causes severe burns to eyes, skin, lungs, and all exposed tissues.
- Heat or product contamination may cause hazardous decomposition.



Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry	Ingestion, skin, inhalation
Eye	Corrosive. May cause burns resulting in permanent damage.
Skin	Corrosive. May cause burns resulting in permanent damage. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. This material is toxic. Harmful if absorbed through the skin.
Ingestion	Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.
Inhalation	Corrosive and may cause burns resulting in permanent damage.
Sub-Chronic Effects	Prolonged or repeated overexposure at near lethal concentration causes kidney and liver damage.

3. Composition/Information on Ingredient:

Chemical Identity	CAS#	EINECS#	INCI Name	Exposure OSHA TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen IARC/NTP/ OSHA	%
Methacrylic Acid	79 -41-4	201-204-4	Methacrylic Acid	20 ppm	20 ppm	Not Listed	>90
Butyl Acetate	123-86-4	204-658-1	Butyl Acetate	150 ppm	150 ppm	Not Listed	0-5
Butyl Methacrylate	97 -88-1	202-615-1	Butyl Methacrylate	N/E	N/E	Not Listed	0-5
N/E – None Established N/R – Not Reviewed	N/DA – No Data Available N/A – Not Applicable						

Methacrylic Acid: Hazard Symbols: C Risk Phrases: R21/22, R35 Safety Phrases: S1/2, S26, S36/37/39, S45

Butyl Acetate: Hazard Symbols: N/E Risk Phrases: R10, R66, R67 Safety Phrases: S2, S25

Butyl Methacrylate: Hazard Symbols: Xi Risk Phrases: R10, R36/37/38, R43 Safety Phrases: S2

See Section 16 for Risk and Safety Phrase Key

NOTE: Refer to Section 11, Toxicological Information for Details



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4. First Aid Measures

First Aid for Eye	In case of contact , immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention.
First Aid for Skin	Immediately flush skin with plenty of water. Remove contaminated clothing . Obtain medical attention if irritation develops or persists. Wash clothing before reuse.
First Aid for Inhalation	Remove to fresh air . If not breathing , give CPR. If breathing is difficult , give oxygen. Get immediate medical attention.
First Aid for Ingestion	If swallowed , do NOT induced vomiting. Have victim drink 8 - 10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flash Point (°F/°C) 149°F/65°C	Flammable Limit (vol %) No Data	Auto-ignition Temperature (vol %) N/DA
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Method:

Extinguishing Media:	Use water spray or fog, foam, dry chemical or Carbon dioxide.
Fire Fighting Instructions:	As in any fire, wear self-contained positive-pressure breathing apparatus and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.
Unusual Hazards:	Combustible liquid . Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

6. Accidental Release Measures

Spill or Release Procedures	Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Obey relevant local, state, and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. EU Regulations require the consultation of Directive 98/24/EC. Dispose and report per regulatory requirements if necessary. Please prevent washings from entering waterways.
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7. Handling and Storage

Handling	Keep away from heat . Keep away from sparks , flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation . Ground and bond containers when transferring material . 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 place. Do not store in direct sunlight. Keep container closed when not in use. Store above 17° C to avoid solidification.
Explosion Hazard	Do not allow temperature below freezing point. Material can burn. Limit indoor storage to approved areas. Avoid high temperatures and sources of ignition.

8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure. Use explosion - proof ventilation equipment.
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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), or European Standard EN166 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	Use chemical splash goggles and face shield.
Skin Protection	Personal protective equipment that provides a barrier to prevent dermal exposure to this substance is required. Wear protective rubber gloves.
Respiratory Protection	A NIOSH/MSHA approved air purifying respirator with an organic vapor/acid 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-facepiece 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, colorless liquid	Pungent, irritating odor	2.0 - 2.2	(H2O=1):1.03	1.4 mPa's @ 20° C	N/A

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)
161°C/15.8°C	N/A	0.93	0.97 @25°C	(Air=1):1	Slower than butyl acetate	N/A	100% (Soluble)

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
149°F/65°C	No Data	N/DA

10. Stability and Reactivity

Stability: Stable	Incompatibility (Materials to Avoid): Free radical initiators, oxidizing agents, reducing agents, Uv light
Hazardous Decomposition Products: NONE	Hazardous Polymerization: Will not occur under normal conditions

Conditions to Avoid:
Avoid high temperatures and sources of ignition. Polymerization may be initiated by contamination with peroxides, azo compounds, heavy metal ions, tertiary amines, and sulfur compounds . Polymerization is also induced by light. Atmospheric oxygen saturation of acrylic/ methacrylic monomers is necessary for stability. Avoid ultraviolet light. If the product solidifies, the inhibitor separates from the methacrylic acid. Thaw slowly without using direct heat. High temperatures may cause uninhibited methacrylic acid to polymerize. The inhibitor will redisperse once liquified.

11. Toxicological Information

Acute Oral Toxicity Oral LD50 (rat) : 2200mg/kg	Acute Dermal Toxicity Dermal LD50 (rabbit): 500mg/kg	Acute Inhalation Toxicity Inhalation LC50 (rat) : 7100 mg/m3 (4 h)	Irritation – skin severe skin irritation	Irritation – Eye permanent damage
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Sensitization	Mutagenicity	Sub-chronic Toxicity
skin sensitization	N/ E	N/ E

12. Ecological Information

Ecotoxicological Information

Acute Toxicity To Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
LC50: 85 mg/l (96 h)	N/E	EC50: 0.59 mg/l (96h)	N/E	N/E

Chemical Fate Information

Biodegradability	N/E
Chemical Oxygen Demand	N/E

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. Disposal 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.

14. Transport Information

DOT (49 CFR 172)	
Proper Shipping Name:	UN1760, Corrosive liquids, n.o.s., (methacrylic acid, butyl methacrylate), 8, PGII
Identification Number:	UN1760
Marine Pollutant:	No
Special Provisions:	B2, T14
Emergency Response Guidebook (ERG) #:	154
IATA (DGR):	
Proper Shipping Name:	UN1760, Corrosive liquids, n.o.s., (methacrylic acid, butyl methacrylate), 8, PGII
Class or Division:	8
UN or ID Number:	UN1760
Packaging Instructions:	
Emergency Response Guidance (ICAO)#:	
IMO (IMDG):	
Proper Shipping Name:	UN1760, Corrosive liquids, n.o.s., (methacrylic acid, butyl methacrylate), 8, PGII
Class or Division:	8.2
UN or ID Number:	UN1760
Special Provisions & Stowage/Segregation:	
Emergency Schedule (EmS)#:	
Other Information:	Flash point = 65°C



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15. Regulatory Information

EU Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following ozone depleting substances or HAP's: <ul style="list-style-type: none"> • NONE This product does not contains any Class 1 or 2 Ozone Depleting Substances (ODS).
Clean Water Act:	The following ingredients are listed as hazardous substances or priority pollutants under the CWA: <ul style="list-style-type: none"> • n-butyl acetate CAS# 123-86-4 None of the chemicals listed in this product are listed as a 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 hazardous under the OSHA Hazard Communication Standard. Its hazard are: <ul style="list-style-type: none"> • Immediate (acute) health hazard • Fire hazard • Sudden release of pressure
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261): <ul style="list-style-type: none"> • No U or P Series Codes • Product may demonstrate the Characteristic of Corrosivity, D002
SARA Title III: Section 302 (RQ)	This product contains the following chemicals regulated under SARA 302: <ul style="list-style-type: none"> • NONE
SARA Title III: Section 302 (TPQ)	This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): <ul style="list-style-type: none"> • Ethyl Acetate , CAS #141-78-6, RQ (Lbs) : 5000
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 hazard are: <ul style="list-style-type: none"> • Immediate (acute) health hazard • Fire hazard • Sudden release of pressure
SARA Title III: Section 313:	This product contains no chemicals 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.
TSCA Section 8(b): Inventory: TSCA Significant New Use Rule:	This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements. None of the chemicals in this material have a SNUR under TSCA.

State Regulations

CA Right-to-Know Law:

California No Significant Risk Level:

N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4

NONE

MA Right-to-Know Law: N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4, Butyl methacrylate CAS #97-88-1

NJ Right-to-Know Law: N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4, Butyl methacrylate CAS #97-88-1

PA Right-to-Know Law: N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4, Butyl methacrylate CAS #97-88-1

FL Right-to-Know Law: N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4, Butyl methacrylate CAS #97-88-1

MN Right-to-Know Law: N-butyl acetate CAS #123-86-4, Methacrylic Acid CAS #79-41-4

International Regulations

CDSL: Canadian Inventory

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(on Canadian Transitional List)

N-butyl acetate CAS #123-86-4 is on the DSL list. WHMIS = B2, D1B, D2B.

Methacrylic Acid CAS #79-41-4 is on the DSL list. WHMIS = E

Butyl methacrylate CAS #97-88-1 is on the DSL list. WHMIS = B2, D2A, F.

Labeling according to EC directives – 1999/45/EC

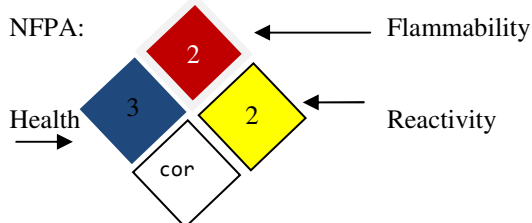
European Community: 	HAZARD SYMBOLS: C, Xi : <i>Corrosive, Irritant</i> • RISK PHRASES: R7 : <i>may cause fire</i> , R34 : <i>causes burns</i> , R36/37/38 : <i>irritating to eyes, respiratory system and skin</i> , R43 : <i>may cause sensitization by skin contact</i> • SAFETY PHRASES: S7 : <i>keep container tightly closed</i> , S9 : <i>keep container in a well ventilated place</i> , S15 : <i>keep away from heat</i> , S16 : <i>keep away from sources of ignition no smoking</i> , S26 : <i>in case of contact with eyes, rinse immediately with plenty of water and seek medical advice</i> , S33 : <i>take precautionary measures against static discharges</i> , S36/37/39 : <i>wear suitable protective clothing, gloves and eye/face protection</i> , S45 : <i>In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible)</i>
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16. Other Information

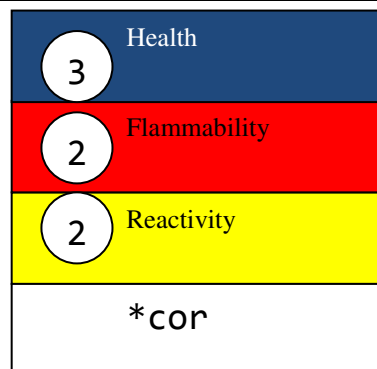
EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

Hazard Symbols: C – Corrosive substances or preparations Xi – Irritants F – Flammable substances or preparations Risk Phrases: 10 – Flammable; 11 – Highly Flammable; 21/22 – Harmful in contact with skin and if swallowed; 35 – Causes severe burns; 36/37/38 – Irritating to eyes, respiratory system, and skin; 43 – May cause sensitization by skin contact; 66 – Repeated exposure may cause skin dryness and cracking; 67 – Vapors may cause drowsiness and dizziness Safety Phrases: ½ – Keep locked up and out of reach of children; 2 – Keep out of the reach of children; 7 – Keep container tightly closed; 16 – Keep away from sources of ignition; 25 – Avoid contact with eyes; 26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; 36/37/39 – Wear suitable protective clothing, gloves, and eye/face protection; 45 – In case of accident or if you feel unwell, seek medical advice.
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Hazard Rating System (Pictograms)



HMIS:



* - Respiratory protection may be necessary depending on conditions of use. Refer to Section VIII of this MSDS for respiratory protection guidelines.

MSDS Prepared by:	BSQ
Revision History:	11/22/04 All section headers, Section 2 contents, format updates throughout.
	12/20/07 DOT Name update
	09/18/08 Updated section 16
	10/22/08 Updated Format
	10/23/08 Composition percentages adjusted
	11/04/08 Updated Risk and Safety Phrases
	12/10/08 Updated specific gravity
	03/16/09 Updated to meet Globally Harmonized System requirements. Added the EU address to section 1. Switched location of section 2 with section 3. Changed the title in sections 1, 8, and 13. Moved MSDS preparation to section 16.
	08/07/09 Section 3 removed Ethanol from the composition list
	02/05/10 Added international emergency phone number to section 1



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