EB Series Unsaturated Polyester Molding Compound

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : EB Series Unsaturated Polyester Molding Compounds

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Cuyahoga Molded Plastics
1265 Babbitt Road
Cleveland, Ohio 44132
T (800) 805-9549 - F (216) 261-3537
Ezalar@cuyahogaplastics.com - www.cuyahogaplastics.com

1.4. Emergency telephone number

Emergency number ChemTel Inc. Domestic 1-800-255-3924 / International 1-813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Muta. 1B H340
Carc. 1B H350
Repr. 1B H360
STOT SE 1 H370
STOT RE 1 H372

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :
H340 - May cause genetic defects
H350 - May cause cancer
H360 - May damage fertility or the unborn child
H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust or fumes
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear personal protective equipment
P307+P311 - If exposed: Call a poison center/doctor
P308+P313 - If exposed or concerned: Get medical advice/attention
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see first aid measures on this label)
P405 - Store locked up
P501 - Dispose of contents/container to meet all regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

21 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
102 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

25 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Styrene	(CAS No) 100-42-5	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 2, H341 Carc. 2, H351 Repr. 1B, H360 STOT SE 3, H335 STOT SE 1, H370 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Acute 2, H401
2,6-Di-tert-butyl-p-cresol	(CAS No) 128-37-0	0 - 1	Acute Tox. 4 (Oral), H302
Antimony oxide (Sb2O3)	(CAS No) 1309-64-4	0 - 1	Carc. 2, H351
Naphtha, petroleum, hydrotreated heavy	(CAS No) 64742-48-9	0 - 1	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician. Specific treatment (see first aid measures on this label).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Do not breathe dust or fumes.

Hygiene measures : Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EB Series Unsaturated Polyester Molding Compounds	
ACGIH	Not applicable
OSHA	Not applicable

STYRENE (100-42-5)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	40 ppm
ACGIH	Remark (ACGIH)	CNS impair; URT irr; peripheral
OSHA	Remark (OSHA)	(2) See Table Z-2.

2,6-Di-tert-butyl-p-cresol (128-37-0)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (inhalable fraction and vapor)
OSHA	Not applicable	

Antimony oxide (Sb2O3) (1309-64-4)	
ACGIH	Not applicable
OSHA	Not applicable

Naphtha, petroleum, hydrotreated heavy (64742-48-9)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection	:	Chemical goggles or safety glasses.
Respiratory protection	:	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information	:	Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Color	:	Colorless
Odor	:	No data available
Odor threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Water: Solubility in water of component(s) of the mixture : • Zinc stearate: 0.9 mg/l (at 20 °C) • Calcium sulfate: 2.23 g/l (at 0 °C) • Aluminum hydroxide (Al(OH)3): 0.0015 g/l (at 20 °C) • 2,6-Di-tert-butyl-p-cresol: 0.6 mg/l (at 25 °C) • Antimony oxide (Sb2O3): < 0.0287 g/l (at 20 °C) • Naphtha, petroleum, hydrotreated heavy: < 1000 mg/l (at 20 °C)
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

STYRENE (100-42-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	11.8
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.800 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h

2,6-Di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	890 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	890.000 mg/kg body weight

Antimony oxide (Sb2O3) (1309-64-4)	
LD50 oral rat	> 34600 mg/kg

Naphtha, petroleum, hydrotreated heavy (64742-48-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

STYRENE (100-42-5)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

2,6-Di-tert-butyl-p-cresol (128-37-0)	
IARC group	3 - Not classifiable

Antimony oxide (Sb2O3) (1309-64-4)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) : Causes damage to organs.

Specific target organ toxicity (repeated exposure) : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

STYRENE (100-42-5)	
LC50 fish 1	4.02 mg/l
LC50 other aquatic organisms 1	4.7 ppm

Antimony oxide (Sb2O3) (1309-64-4)	
LC50 fish 1	> 80 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

Antimony oxide (Sb2O3) (1309-64-4)	
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 1000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 2	361.5 - 496.0 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Naphtha, petroleum, hydrotreated heavy (64742-48-9)	
LC50 fish 1	2200 mg/l (Exposure time: 96 h - Species: Pimephales promelas)

12.2. Persistence and degradability

EB Series Unsaturated Polyester Molding Compounds	
Persistence and degradability	Not established.

STYRENE (100-42-5)	
Persistence and degradability	Not established.

2,6-Di-tert-butyl-p-cresol (128-37-0)	
Persistence and degradability	Not established.

Antimony oxide (Sb2O3) (1309-64-4)	
Persistence and degradability	Not established.

Naphtha, petroleum, hydrotreated heavy (64742-48-9)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

EB Series Unsaturated Polyester Molding Compounds	
Bioaccumulative potential	Not established.

STYRENE (100-42-5)	
Bioaccumulative potential	Not established.

2,6-Di-tert-butyl-p-cresol (128-37-0)	
BCF fish 1	230 - 2500
Log Pow	4.17
Bioaccumulative potential	Not established.

Antimony oxide (Sb2O3) (1309-64-4)	
Bioaccumulative potential	Not established.

Naphtha, petroleum, hydrotreated heavy (64742-48-9)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer :

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to meet all regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description	:	UN3314 Plastic molding compound, 9, III
UN-No.(DOT)	:	UN3314
Proper Shipping Name (DOT)	:	Plastic molding compound
Class (DOT)	:	9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT)	:	9 - Class 9 (Miscellaneous dangerous materials)

Packing group (DOT)	:	III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	221
DOT Packaging Bulk (49 CFR 173.xxx)	:	221
DOT Special Provisions (49 CFR 172.102)	:	32 - Polymeric beads and molding compounds may be made from polystyrene, poly(methyl methacrylate) or other polymeric material. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. IP7 - For UN identification numbers 1327, 1363, 1364, 1365, 1386, 1841, 2211, 2217, 2793 and 3314, IBCs are not required to meet the IBC performance tests specified in part 178, subpart N of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	100 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	200 kg
DOT Vessel Stowage Location	:	E - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	:	21 - Segregation same as for flammable liquids,25 - Shade from radiant heat,87 - Stow ‘‘separated from’’ Class 1 (explosives) except Division 14
Emergency Response Guide (ERG) Number	:	171
Other information	:	No supplementary information available.

Transportation of Dangerous Goods

Transport document description	:	UN3314 PLASTICS MOULDING COMPOUND, 9, III
UN-No. (TDG)	:	UN3314
Proper Shipping Name (Transportation of Dangerous Goods)	:	PLASTICS MOULDING COMPOUND
TDG Primary Hazard Classes	:	9 - Class 9 - Miscellaneous Products, Substances or Organisms
Packing group	:	III - Minor Danger
Explosive Limit and Limited Quantity Index	:	5 kg
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	100 kg
Passenger Carrying Ship Index	:	Forbidden

Transport by sea

UN-No. (IMDG)	:	3314
Proper Shipping Name (IMDG)	:	PLASTICS MOULDING COMPOUND
Class (IMDG)	:	9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	:	III - substances presenting low danger

Air transport

UN-No. (IATA)	: 3314
Proper Shipping Name (IATA)	: Plastics moulding compound
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

STYRENE (100-42-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb

Butylated Hydroxy-toluene (128-37-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Antimony oxide (Sb2O3) (1309-64-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Naphtha, petroleum, hydrotreated heavy (64742-48-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

Butylated Hydroxy-toluene (128-37-0)
Listed on the Canadian DSL (Domestic Sustances List)

Antimony oxide (Sb2O3) (1309-64-4)	
Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Naphtha, petroleum, hydrotreated heavy (64742-48-9)	
Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid

EU-Regulations

No additional information available

Butylated Hydroxy-toluene (128-37-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Antimony oxide (Sb2O3) (1309-64-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Naphtha, petroleum, hydrotreated heavy (64742-48-9)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

STYRENE (100-42-5)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

Butylated Hydroxy-toluene (128-37-0)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on Turkish inventory of chemical

Antimony oxide (Sb2O3) (1309-64-4)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on Turkish inventory of chemical

Naphtha, petroleum, hydrotreated heavy (64742-48-9)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on Turkish inventory of chemical

15.3. US State regulations

Antimony oxide (Sb2O3) (1309-64-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

STYRENE (100-42-5)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

Butylated Hydroxy-toluene (128-37-0)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

Antimony oxide (Sb2O3) (1309-64-4)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

------	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
------	Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
------	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
------	Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
------	Asp. Tox. 1	Aspiration hazard Category 1
------	Carc. 1B	Carcinogenicity Category 1B
------	Carc. 2	Carcinogenicity Category 2
------	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
------	Flam. Liq. 3	Flammable liquids Category 3
------	Muta. 1B	Germ cell mutagenicity Category 1B
------	Muta. 2	Germ cell mutagenicity Category 2
------	Repr. 1B	Reproductive toxicity Category 1B
------	Skin Irrit. 2	Skin corrosion/irritation Category 2
------	STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
------	STOT SE 1	Specific target organ toxicity (single exposure) Category 1
------	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
------	H226	Flammable liquid and vapor
------	H302	Harmful if swallowed
------	H304	May be fatal if swallowed and enters airways
------	H315	Causes skin irritation
------	H319	Causes serious eye irritation
------	H332	Harmful if inhaled
------	H335	May cause respiratory irritation
------	H340	May cause genetic defects
------	H341	Suspected of causing genetic defects
------	H350	May cause cancer
------	H351	Suspected of causing cancer
------	H360	May damage fertility or the unborn child
------	H370	Causes damage to organs
------	H372	Causes damage to organs through prolonged or repeated exposure
------	H401	Toxic to aquatic life

GHS US SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product