Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **Beta Paint BC-498, BC-498X**

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

Relevant identified use(s) • Beta Paint

1.3 Details of the supplier of the safety data sheet

Manufacturer • Saint-Gobain Crystals

17900 Great Lakes Parkway
Hiram, OH 44234
United States
www.crystals.saint-gobain.com
scintillation@saint-gobain.com

Telephone (General) • 440-834-5600

1.4 Emergency telephone number

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]
According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Flammable Liquids 3 - H226
Aspiration 1 - H304
Acute Toxicity Dermal 4 - H312
Skin Irritation 2 - H315
Acute Toxicity Inhalation 4 - H332
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Specific Target Organ Toxicity Repeated Exposure 2 - H373

DSD/DPD • Flammable
Harmful (Xn)
Irritant (Xi)

R10, R20/21, R36/37/38, R48/20, R65, R67

2.2 Label Elements

CLP

DANGER

Hazard statements

- H226 - Flammable liquid and vapour
  H304 - May be fatal if swallowed and enters airways
  H312 - Harmful in contact with skin
  H315 - Causes skin irritation
  H332 - Harmful if inhaled
  H335 - May cause respiratory irritation
  H336 - May cause drowsiness or dizziness
  H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  P233 - Keep container tightly closed.
  P240 - Ground and/or bond container and receiving equipment.
  P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
  P242 - Use only non-sparking tools.
  P243 - Take precautionary measures against static discharge.
  P260 - Do not breathe mists, vapours, and/or spray.
  P264 - Wash thoroughly after handling.
  P271 - Use only outdoors or in a well-ventilated area.
  P280 - Wear protective gloves, clothing , and eye/face protection , .

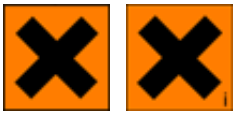
Response

- P370+P378 - In case of fire: Use appropriate media for extinction.
  P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
  P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  P363 - Wash contaminated clothing before reuse.
  P321 - Specific treatment, see supplemental first aid information.
  P332+P313 - If skin irritation occurs: Get medical advice/attention.
  P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  P331 - Do NOT induce vomiting.
  P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal

- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  P235 - Keep cool.
  P405 - Store locked up.
  P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



Risk phrases

- R10 - Flammable.
  R20/21 - Harmful by inhalation and in contact with skin.
  R36/37/38 - Irritating to eyes, respiratory system and skin.
  R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
  R65 - Harmful: may cause lung damage if swallowed.
  R67 - Vapours may cause drowsiness and dizziness.

Safety phrases

- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  S36 - Wear suitable protective clothing.

2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 3
  Aspiration 1
  Skin Irritation 2
  Eye Irritation 2
  Acute Toxicity Inhalation 4
  Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
  Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
  Carcinogenicity 2
  Reproductive Toxicity 2
  Specific Target Organ Toxicity Repeated Exposure 1

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements

- Flammable liquid and vapour
  May be fatal if swallowed and enters airways
  Causes skin irritation
  Causes serious eye irritation
  Harmful if inhaled
  May cause respiratory irritation
  May cause drowsiness or dizziness
  Suspected of causing cancer.
  Suspected of damaging fertility or the unborn child.
  Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  Keep container tightly closed.
  Ground and/or bond container and receiving equipment.
  Use explosion-proof electrical/ventilating/lighting/equipment.
  Use only non-sparking tools.
  Take precautionary measures against static discharge.
  Do not breathe mists, vapours, and/or spray.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves, clothing , and eye/face protection , .

Response

- In case of fire: Use appropriate media for extinction.
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.
  Take off contaminated clothing and wash before reuse.
  If skin irritation occurs: Get medical advice/attention.
  Specific treatment, see supplemental first aid information.
  If on skin: Wash with plenty of water .
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  If eye irritation persists: Get medical advice/attention.
  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/attention.

Storage/Disposal
- Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS
- Flammable Liquids - B2
Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.2 Label elements

WHMIS
-

WHMIS
- Flammable Liquids - B2
Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.3 Other hazards

WHMIS
- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
m-Xylene	**CAS:**108-38-3 **EC Number:**203-576-3 **EU Index:**601-022-00-9	19.70295% TO 45.23238%	Skin-Rabbit LD50 • 14100 µL/kg Ingestion/Oral-Rat LD50 • 4988 mg/kg	**EU DSD/DPD:** Annex VI, Table 3.2: R10; Xn; R20/21; Xi; R38 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332: Skin Irrit. 2, H315 **OSHA HCS 2012:** Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332: Skin Irrit. 2, H315	NDA
				EU DSD/DPD: Xi; R36/37/38; R67	

Styrene, methyl-	**CAS:**25013-15-4 **EINECS:**246-562-2	24.34588815% TO 33.95193271%	Ingestion/Oral-Rat LD50 • 2255 mg/kg	**EU CLP:** Flam. Liq. 3, H226; Skin Irrit. 2, H315; STOT SE 3: Resp. Irrit., H335; STOT SE 3: Narc., H336 **OSHA HCS 2012:** Flam. Liq. 3; Eye Irrit. 2; Skin Irrit 2; STOT SE 3: Resp. Irrit.& Narc.	NDA
p-Xylene	**CAS:**106-42-3 **EC Number:**203-396-5 **EU Index:**601-022-00-9	6.56765% TO 22.61619%	Inhalation-Rat LC50 • 4550 ppm 4 Hour(s) Ingestion/Oral-Rat LD50 • 3910 mg/kg	**EU DSD/DPD:** Annex VI, Table 3.2: R10; Xn, R20/21; Xi, R38 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 **OSHA HCS 2012:** Flam. Liq. 3; Acute Tox. 4 (inhl); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Narc; Asp. Tox. 1; STOT RE 1 (Ears); Repr. 2	NDA
o-Xylene	**CAS:**95-47-6 **EC Number:**202-422-2 **EU Index:**601-022-00-9	6.56765% TO 22.61619%	Ingestion/Oral-Rat LD50 • 3567 mg/kg	**EU DSD/DPD:** Annex VI, Table 3.2: R10; Xn, R20/21; Xi, R38 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 **OSHA HCS 2012:** Flam. Liq. 2; Acute Tox. 4 (inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 2 (inhl); STOT SE 3: Narc. Asp. Tox. 1	NDA
Ethylbenzene	**CAS:**100-41-4 **EC Number:**202-849-4 **EU Index:**601-023-00-4	6.56765% TO 22.61619%	Ingestion/Oral-Rat LD50 • 3500 mg/kg Inhalation-Rat LC50 • 55000 mg/m³ 2 Hour(s) Skin-Rabbit LD50 • >5000 mg/kg	**EU DSD/DPD:** Annex VI, Table 3.2: F, R11; Xn, R20, R48/20, R65 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT RE 2, H373 (hearing organs, inhl); Asp. Tox. 1, H304 **OSHA HCS 2012:** Flam. Liq. 2; Acute Tox. 4 (Inhl); Eye Irrit. 2; Carc. 2 (Inhl); Repr. 2 (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (Inhl); STOT RE 2 (Ear, Inhl); Asp. Tox. 1	NDA
B-PBD	**CAS:**15082-28-7 **EINECS:**239-135-7	0.244% TO 0.3397%	NDA	**EU DSD/DPD:** Not Classified **EU CLP:** Not Classified **OSHA HCS 2012:** Not Classified	NDA
2,6-Di-tert-butyl-p-cresol	**CAS:**128-37-0 **EC Number:**204-881-4	0.00818388% TO 0.01141296%	Ingestion/Oral-Rat LD50 • 890 mg/kg	**EU CLP:** Community workplace exposure limit **OSHA HCS 2012:** Exposure limits	NDA
Zinc stearate	**CAS:**557-05-1 **EINECS:**209-151-9	0.00272796% TO 0.00380432%	Ingestion/Oral-Rat LD50 • >10 g/kg	**EU CLP:** Community workplace exposure limit **OSHA HCS 2012:** Exposure limits	NDA

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

- IF ON SKIN: Wash with plenty of soap and water. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion
- Do NOT induce vomiting. Keep head below hips if vomiting occurs. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Water fog, foam, CO2, or dry chemical.

Unsuitable Extinguishing Media
- No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
  Containers may explode when heated.
  Vapors may form explosive mixtures with air.
  Vapor explosion hazard indoors, outdoors or in sewers.
  Vapors may travel to source of ignition and flash back.
  Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Products
- No data available

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).
  Move containers from fire area if you can do it without risk.
  Use water spray to cool fire-exposed containers.
  Structural firefighters' protective clothing will only provide limited protection.
  Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Stop leak if you can do it without risk.
  All equipment used when handling the product must be grounded.
  Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
  Use clean non-sparking tools to collect absorbed material.
  A vapor suppressing foam may be used to reduce vapors.
  LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only in well ventilated areas. Avoid contact with heat and ignition sources. Never weld or use a torch on drums (even when empty) due to possible residues. Use only non-sparking tools. Take precautionary measures against static charges. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapors, and/or spray. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container closed when not in use. Store in a cool/low-temperature, well-ventilated place. Keep away from heat and ignition sources.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	**ACGIH**	**Canada British Columbia**	**Canada Manitoba**	**Canada New Brunswick**	**Canada Northwest Territories**
Zinc stearate (557-05-1)	STELs	Not established	20 mg/m3 STEL (total dust)	Not established	Not established	Not established
	TWAs	Not established	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)	Not established	Not established	Not established
2,6-Di-tert-butyl-p-cresol (128-37-0)	TWAs	2 mg/m3 TWA (inhalable fraction and vapor)	2 mg/m3 TWA (aerosol, inhalable, and vapour)	2 mg/m3 TWA (inhalable fraction and vapor)	10 mg/m3 TWA	2 mg/m3 TWA (inhalable fraction and vapour)
	STELs	Not established	Not established	Not established	Not established	4 mg/m3 STEL (inhalable fraction and vapour)
o-Xylene (95-47-6)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEL	150 ppm STEL; 651 mg/m3 STEL	150 ppm STEL
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWA	100 ppm TWA; 434 mg/m3 TWA	100 ppm TWA
p-Xylene (106-42-3)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEL	150 ppm STEL; 651 mg/m3 STEL	150 ppm STEL
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWA	100 ppm TWA; 434 mg/m3 TWA	100 ppm TWA
Ethylbenzene (100-41-4)	TWAs	20 ppm TWA	20 ppm TWA	20 ppm TWA	100 ppm TWA; 434 mg/m3 TWA	100 ppm TWA
	STELs	Not established	Not established	Not established	125 ppm STEL; 543 mg/m3 STEL	125 ppm STEL
m-Xylene	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEL	150 ppm STEL; 651 mg/m3 STEL	150 ppm STEL

(108-38-3)	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWA	100 ppm TWA; 434 mg/m3 TWA	100 ppm TWA
Styrene, methyl- (25013-15-4)	STELs	100 ppm STEL	75 ppm STEL	100 ppm STEL	100 ppm STEL; 483 mg/m3 STEL	100 ppm STEL
	TWAs	50 ppm TWA	25 ppm TWA	50 ppm TWA	50 ppm TWA; 242 mg/m3 TWA	50 ppm TWA

Exposure Limits/Guidelines (Con't.)

	Result	Canada Nova Scotia	Canada Nunavut	Canada Ontario	Canada Quebec	Canada Yukon
Zinc stearate (557-05-1)	STELs	Not established	Not established	Not established	Not established	20 mg/m3 STEL
	TWAs	Not established	Not established	Not established	Not established	30 mppcf TWA; 10 mg/m3 TWA
2,6-Di-tert-butyl-p-cresol (128-37-0)	TWAs	2 mg/m3 TWA (inhalable fraction and vapor)	2 mg/m3 TWA (inhalable fraction and vapour)	2 mg/m3 TWA (inhalable fraction and vapor)	Not established	10 mg/m3 TWA
	STELs	Not established	4 mg/m3 STEL (inhalable fraction and vapour)	Not established	10 mg/m3 STEV	20 mg/m3 STEL
o-Xylene (95-47-6)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWA	Not established	Not established
p-Xylene (106-42-3)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWA	Not established	Not established
Ethylbenzene (100-41-4)	TWAs	20 ppm TWA	100 ppm TWA	20 ppm TWA	Not established	100 ppm TWA; 435 mg/m3 TWA
	STELs	Not established	125 ppm STEL	Not established	125 ppm STEV; 543 mg/m3 STEV	125 ppm STEL; 545 mg/m3 STEL
m-Xylene (108-38-3)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWA	Not established	Not established
Styrene, methyl- (25013-15-4)	STELs	100 ppm STEL	100 ppm STEL	100 ppm STEL	100 ppm STEV; 483 mg/m3 STEV	150 ppm STEL; 720 mg/m3 STEL
	TWAs	50 ppm TWA	50 ppm TWA	50 ppm TWA	Not established	100 ppm TWA; 480 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)

	Result	China	Denmark	Finland	France	Germany DFG
Zinc stearate (557-05-1)	TWAs	Not established	Not established	10 mg/m3 TWA	10 mg/m3 TWA [VME]	Not established
2,6-Di-tert-butyl-p-cresol (128-37-0)	TWAs	Not established	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWA [VME]	Not established
	Ceilings	Not established	Not established	Not established	Not established	40 mg/m3 Peak (can occur as vapor and aerosol at the same time, inhalable fraction)
	MAKs	Not established	Not established	Not established	Not established	10 mg/m3 TWA MAK (can occur as vapor and aerosol at the same time, inhalable fraction)
					100 ppm STEL	

o-Xylene (95-47-6)	STELs	100 mg/m3 STEL (listed under Xylene (all isomers))	Not established	Not established	[VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit)	Not established
	TWAs	50 mg/m3 TWA (listed under Xylene (all isomers))	25 ppm TWA; 109 mg/m3 TWA	50 ppm TWA; 220 mg/m3 TWA	50 ppm TWA [VME] (restrictive limit); 221 mg/m3 TWA [VME] (restrictive limit)	Not established
p-Xylene (106-42-3)	STELs	100 mg/m3 STEL (listed under Xylene (all isomers))	Not established	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit)	Not established
	TWAs	50 mg/m3 TWA (listed under Xylene (all isomers))	25 ppm TWA; 109 mg/m3 TWA	50 ppm TWA; 220 mg/m3 TWA	50 ppm TWA [VME] (restrictive limit); 221 mg/m3 TWA [VME] (restrictive limit)	Not established
Ethylbenzene (100-41-4)	STELs	150 mg/m3 STEL	Not established	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit)	Not established
	TWAs	100 mg/m3 TWA	50 ppm TWA; 217 mg/m3 TWA	50 ppm TWA; 220 mg/m3 TWA	20 ppm TWA [VME] (restrictive limit); 88.4 mg/m3 TWA [VME] (restrictive limit)	Not established
	Biological Limit Values	Not established	Not established	5.2 mmol/L Medium: urine Time: end of shift at end of workweek or exposure period Parameter: Mandelic acid	Not established	Not established
	Ceilings	Not established	Not established	Not established	Not established	40 ppm Peak; 176 mg/m3 Peak
	MAKs	Not established	Not established	Not established	Not established	20 ppm TWA MAK; 88 mg/m3 TWA MAK
m-Xylene (108-38-3)	STELs	100 mg/m3 STEL (listed under Xylene (all isomers))	Not established	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit)	Not established
	TWAs	50 mg/m3 TWA (listed under Xylene (all isomers))	25 ppm TWA; 109 mg/m3 TWA	50 ppm TWA; 220 mg/m3 TWA	50 ppm TWA [VME] (restrictive limit); 221 mg/m3 TWA [VME] (restrictive limit)	Not established
Styrene, methyl- (25013-15-4)	TWAs	Not established	25 ppm TWA; 120 mg/m3 TWA	10 ppm TWA; 49 mg/m3 TWA	50 ppm TWA [VME]; 240 mg/m3 TWA [VME]	Not established
	Ceilings	Not established	Not established	Not established	Not established	40 ppm Peak (all isomers); 196 mg/m3 Peak (all isomers)
	MAKs	Not established	Not established	Not established	Not established	20 ppm TWA MAK; 98 mg/m3 TWA MAK

Exposure Limits/Guidelines (Con't.)						
	Result	**Germany TRGS**	**Greece**	**Hungary**	**Ireland**	**Italy**
Zinc stearate (557-05-1)	STELs	Not established	Not established	Not established	12 mg/m3 STEL (calculated, respirable dust); 20 mg/m3 STEL (total inhalable dust)	Not established
	TWAs	Not established	Not established	Not established	10 mg/m3 TWA (total inhalable dust); 4 mg/m3 TWA (respirable dust)	Not established
2,6-Di-tert-butyl-p-cresol (128-37-0)	TWAs	10 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 4)	10 mg/m3 TWA	Not established	10 mg/m3 TWA	Not established
	STELs	Not established	Not established	Not established	30 mg/m3 STEL (calculated)	Not established
o-Xylene (95-47-6)	TWAs	Not established	100 ppm TWA; 435 mg/m3 TWA	221 mg/m3 TWA [AK]	50 ppm TWA; 221 mg/m3 TWA	50 ppm TWA Media Ponderata nel Tempo; 221 mg/m3 TWA Media Ponderata nel Tempo
	STELs	Not established	150 ppm STEL; 650 mg/m3 STEL	442 mg/m3 STEL [CK]	100 ppm STEL (fume); 442 mg/m3 STEL (total inhalable dust)	100 ppm STEL Breve termine; 442 mg/m3 STEL Breve termine
p-Xylene (106-42-3)	TWAs	Not established	100 ppm TWA; 435 mg/m3 TWA	221 mg/m3 TWA [AK]	50 ppm TWA; 221 mg/m3 TWA	50 ppm TWA Media Ponderata nel Tempo; 221 mg/m3 TWA Media Ponderata nel Tempo
	STELs	Not established	150 ppm STEL; 650 mg/m3 STEL	442 mg/m3 STEL [CK]	100 ppm STEL (fume); 442 mg/m3 STEL	100 ppm STEL Breve termine; 442 mg/m3 STEL Breve termine
Ethylbenzene (100-41-4)	TWAs	20 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 88 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	100 ppm TWA; 435 mg/m3 TWA	442 mg/m3 TWA [AK]	100 ppm TWA; 442 mg/m3 TWA	100 ppm TWA Media Ponderata nel Tempo; 442 mg/m3 TWA Media Ponderata nel Tempo

	STELs	Not established	125 ppm STEL; 545 mg/m3 STEL	884 mg/m3 STEL [CK]	200 ppm STEL; 884 mg/m3 STEL	200 ppm STEL Breve termine; 884 mg/m3 STEL Breve termine
m-Xylene (108-38-3)	TWAs	Not established	100 ppm TWA; 435 mg/m3 TWA	221 mg/m3 TWA [AK]	50 ppm TWA; 221 mg/m3 TWA	50 ppm TWA Media Ponderata nel Tempo; 221 mg/m3 TWA Media Ponderata nel Tempo
	STELs	Not established	150 ppm STEL; 650 mg/m3 STEL	442 mg/m3 STEL [CK]	100 ppm STEL; 442 mg/m3 STEL	100 ppm STEL Breve termine; 442 mg/m3 STEL Breve termine
Styrene, methyl- (25013-15-4)	TWAs	100 ppm TWA AGW (all isomers, exposure factor 2); 490 mg/m3 TWA AGW (all isomers, exposure factor 2)	100 ppm TWA; 480 mg/m3 TWA	Not established	50 ppm TWA; 242 mg/m3 TWA	Not established
	STELs	Not established	150 ppm STEL; 720 mg/m3 STEL	Not established	10 ppm STEL; 483 mg/m3 STEL	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Netherlands	NIOSH	OSHA	Poland	Portugal
Zinc stearate (557-05-1)	TWAs	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not established	Not established
2,6-Di-tert-butyl-p-cresol (128-37-0)	TWAs	Not established	10 mg/m3 TWA	Not established	Not established	2 mg/m3 TWA [VLE-MP] (inhalable fraction, aerosol and vapor)
o-Xylene (95-47-6)	STELs	442 mg/m3 STEL	150 ppm STEL; 655 mg/m3 STEL	Not established	Not established	100 ppm STEL [VLE-CD] (indicative limit value); 442 mg/m3 STEL [VLE-CD] (indicative limit value)
	TWAs	210 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	100 mg/m3 TWA [NDS]	50 ppm TWA [VLE-MP] (indicative limit value); 221 mg/m3 TWA [VLE-MP] (indicative limit value)
p-Xylene (106-42-3)	STELs	442 mg/m3 STEL	150 ppm STEL; 655 mg/m3 STEL	Not established	Not established	100 ppm STEL [VLE-CD] (indicative limit value); 442 mg/m3 STEL [VLE-CD] (indicative limit value)
	TWAs	210 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	100 mg/m3 TWA [NDS]	50 ppm TWA [VLE-MP] (indicative limit value); 221 mg/m3 TWA [VLE-MP] (indicative limit value)
Ethylbenzene (100-41-4)	STELs	430 mg/m3 STEL	125 ppm STEL; 545 mg/m3 STEL	Not established	400 mg/m3 STEL [NDSCh]	200 ppm STEL [VLE-CD] (indicative limit value); 884 mg/m3 STEL [VLE-CD] (indicative limit value)
						100 ppm TWA [VLE-

	TWAs	215 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	200 mg/m3 TWA [NDS]	MP] (indicative limit value); 442 mg/m3 TWA [VLE-MP] (indicative limit value)
m-Xylene (108-38-3)	STELs	442 mg/m3 STEL	150 ppm STEL; 655 mg/m3 STEL	Not established	Not established	100 ppm STEL [VLE-CD] (indicative limit value); 442 mg/m3 STEL [VLE-CD] (indicative limit value)
	TWAs	210 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	100 mg/m3 TWA [NDS]	50 ppm TWA [VLE-MP] (indicative limit value); 221 mg/m3 TWA [VLE-MP] (indicative limit value)
Styrene, methyl- (25013-15-4)	STELs	Not established	Not established	Not established	300 mg/m3 STEL [NDSCh]	100 ppm STEL [VLE-CD]
	TWAs	Not established	100 ppm TWA; 480 mg/m3 TWA	100 ppm TWA; 480 mg/m3 TWA	100 mg/m3 TWA [NDS]	50 ppm TWA [VLE-MP]

Exposure Limits/Guidelines (Con't.)

	Result	Spain	Sweden
Zinc stearate (557-05-1)	TWAs	Not established	5 mg/m3 LLV (total dust)
2,6-Di-tert-butyl-p-cresol (128-37-0)	TWAs	10 mg/m3 TWA [VLA-ED]	Not established
o-Xylene (95-47-6)	STELs	100 ppm STEL [VLA-EC]; 442 mg/m3 STEL [VLA-EC]	100 ppm Binding STLV; 442 mg/m3 Binding STLV
	TWAs	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m3 TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 221 mg/m3 LLV
p-Xylene (106-42-3)	STELs	100 ppm STEL [VLA-EC]; 442 mg/m3 STEL [VLA-EC]	100 ppm Binding STLV; 442 mg/m3 Binding STLV
	TWAs	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m3 TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 221 mg/m3 LLV
Ethylbenzene (100-41-4)	STELs	200 ppm STEL [VLA-EC]; 884 mg/m3 STEL [VLA-EC]	200 ppm Binding STLV; 884 mg/m3 Binding STLV
	TWAs	100 ppm TWA [VLA-ED] (indicative limit value); 441 mg/m3 TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 220 mg/m3 LLV
m-Xylene (108-38-3)	STELs	100 ppm STEL [VLA-EC]; 442 mg/m3 STEL [VLA-EC]	100 ppm Binding STLV; 442 mg/m3 Binding STLV
	TWAs	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m3 TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 221 mg/m3 LLV
Styrene, methyl- (25013-15-4)	STELs	100 ppm STEL [VLA-EC]; 492 mg/m3 STEL [VLA-EC]	30 ppm Indicative STLV; 150 mg/m3 Indicative STLV
	TWAs	50 ppm TWA [VLA-ED]; 246 mg/m3 TWA [VLA-ED]	10 ppm LLV; 50 mg/m3 LLV

Exposure Control Notations

Denmark

- m-Xylene (108-38-3): **Skin Notations:** (Potential for cutaneous absorption (listed under Xylene, all isomers))
- p-Xylene (106-42-3): **Skin Notations:** (Potential for cutaneous absorption (listed under Xylene, all isomers))

•Ethylbenzene (100-41-4): **Skin Notations:** (Potential for cutaneous absorption)
•o-Xylene (95-47-6): **Skin Notations:** (Potential for cutaneous absorption (listed under Xylene, all isomers))
•Styrene, methyl- (25013-15-4): **Skin Notations:** (Potential for cutaneous absorption (listed under Vinyltoluene, all isomers))

Portugal
•m-Xylene (108-38-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Skin:** (skin - potential for cutaneous exposure (indicative limit value))
•p-Xylene (106-42-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Skin:** (indicative limit value)
•Ethylbenzene (100-41-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans) | **Skin:** (skin - potential for cutaneous exposure (indicative limit value))
•o-Xylene (95-47-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Skin:** (indicative limit value)
•Styrene, methyl- (25013-15-4): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
•2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Greece
•m-Xylene (108-38-3): **Skin:** (skin - potential for cutaneous absorption)
•p-Xylene (106-42-3): **Skin:** (skin - potential for cutaneous absorption)
•o-Xylene (95-47-6): **Skin:** (skin - potential for cutaneous absorption)

Italy
•m-Xylene (108-38-3): **Skin:** (skin - potential for cutaneous absorption)
•p-Xylene (106-42-3): **Skin:** (skin - potential for cutaneous absorption)
•Ethylbenzene (100-41-4): **Skin:** (skin - potential for cutaneous absorption)
•o-Xylene (95-47-6): **Skin:** (skin - potential for cutaneous absorption)

Hungary
•m-Xylene (108-38-3): **Skin:** (potential for cutaneous absorption)
•p-Xylene (106-42-3): **Skin:** (potential for cutaneous absorption)
•Ethylbenzene (100-41-4): **Skin:** (potential for cutaneous absorption)
•o-Xylene (95-47-6): **Skin:** (potential for cutaneous absorption)

Netherlands
•m-Xylene (108-38-3): **Skin:** (skin notation)
•p-Xylene (106-42-3): **Skin:** (skin notation)
•Ethylbenzene (100-41-4): **Skin:** (skin notation)
•o-Xylene (95-47-6): **Skin:** (skin notation)

Finland
•m-Xylene (108-38-3): **Skin:** (Potential for cutaneous absorption)
•p-Xylene (106-42-3): **Skin:** (Potential for cutaneous absorption)
•Ethylbenzene (100-41-4): **Skin:** (Potential for cutaneous absorption)
•o-Xylene (95-47-6): **Skin:** (Potential for cutaneous absorption)

Ireland
•m-Xylene (108-38-3): **Skin:** (Potential for cutaneous absorption)
•p-Xylene (106-42-3): **Skin:** (Potential for cutaneous absorption)
•Ethylbenzene (100-41-4): **Skin:** (Potential for cutaneous absorption)
•o-Xylene (95-47-6): **Skin:** (Potential for cutaneous absorption)

Spain
•m-Xylene (108-38-3): **Skin:** (skin - potential for cutaneous exposure)
•p-Xylene (106-42-3): **Skin:** (skin - potential for cutaneous exposure)
•Ethylbenzene (100-41-4): **Skin:** (skin - potential for cutaneous exposure)
•o-Xylene (95-47-6): **Skin:** (skin - potential for cutaneous exposure)

Sweden
•m-Xylene (108-38-3): **Skin:** (Skin notation)
•p-Xylene (106-42-3): **Skin:** (Skin notation)
•Ethylbenzene (100-41-4): **Skin:** (Skin notation)
•o-Xylene (95-47-6): **Skin:** (Skin notation)
•Styrene, methyl- (25013-15-4): **Skin:** (Skin notation)

ACGIH
•m-Xylene (108-38-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
•p-Xylene (106-42-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

•Ethylbenzene (100-41-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)
•o-Xylene (95-47-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
•Styrene, methyl- (25013-15-4): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
•2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Germany TRGS
•Ethylbenzene (100-41-4): **Skin:** (skin notation)

Germany DFG
•Ethylbenzene (100-41-4): **Carcinogens:** (Category 4 (no significant contribution to human cancer)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)
•Styrene, methyl- (25013-15-4): **Pregnancy:** (classification not yet possible (all isomers))
•2,6-Di-tert-butyl-p-cresol (128-37-0): **Carcinogens:** (Category 4 (no significant contribution to human cancer)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

Exposure Limits Supplemental

ACGIH
•m-Xylene (108-38-3): **BEIs:** (1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)
•p-Xylene (106-42-3): **BEIs:** (1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)
•Ethylbenzene (100-41-4): **BEIs:** (0.15 g/g creatinine Medium: urine Time: end of shift Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)) | **TLV Basis - Critical Effects:** (upper respiratory tract irritation; kidney damage (nephropathy); cochlear impairment)
•o-Xylene (95-47-6): **BEIs:** (1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)
•Styrene, methyl- (25013-15-4): **TLV Basis - Critical Effects:** (eye and upper respiratory tract irritation)
•2,6-Di-tert-butyl-p-cresol (128-37-0): **TLV Basis - Critical Effects:** (upper respiratory tract irritation)

Germany TRGS
•Ethylbenzene (100-41-4): **BELs:** (300 mg/g Medium: urine Time: end of shift Parameter: Mandelic acid plus Phenylglyoxylic acid)

8.2 Exposure controls

Engineering Measures/Controls
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory
- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face
- Wear chemical splash safety goggles.

Skin/Body
- Wear appropriate gloves.

Environmental Exposure Controls
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
BEI = Biological Exposure Indices
LLV = Limit Level Value is the exposure limit for 8-hour work day.
LLV = Limit Level Value is the exposure limit for 8-hour work day
MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEL = Short Term Exposure Limits are based on 15-minute exposures
STEV = Short Term Exposure Value
TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Clear, fluorescent liquid with an aromatic odor.
Color	Clear, fluorescent.	Odor	Aromatic
Odor Threshold	Data lacking		
General Properties			
Boiling Point	140 °C(284 °F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 0.9 Water=1	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	3.8 mmHg (torr)	Vapor Density	3.6 Air=1
Evaporation Rate	9.5 Ether = 1		
Flammability			
Flash Point	26.7 °C(80.06 °F) CC (Closed Cup)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

- Strong oxidizers.

10.6 Hazardous decomposition products

- Smoke and noxious gases (carbon monoxide and hydrocarbons)

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
m-Xylene (19.70295% TO 45.23238%)	108-38-3	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 4988 mg/kg; Inhalation-Mouse LC50 • 5267 ppm 6 Hour(s); Inhalation-Human TCLo • 50 ppm 2 Hour(s); *Brain and Coverings*:**Other degenerative changes**; *Liver*:**Other changes**; *Biochemical:Metabolism (intermediary)*:**Other**; Inhalation-Man TCLo • 870 mg/m³ 4 Hour(s)-Intermittent; *Behavioral*:**Ataxia**; *Behavioral*:**Irritability**; Skin-Rabbit LD50 • 14100 µL/kg; Skin-Rat TDLo • 8 mg/kg; *Skin and Appendages:After systemic exposure*:**Dermatitis, irritative**; *Biochemical:Metabolism (intermediary)*:**Effect on inflammation or mediation of inflammation**; **Irritation:** Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 10 µg 24 Hour(s)-Open • Severe irritation; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 100 ppm 6 Hour(s) 20 Day(s)-Intermittent; *Behavioral*:**Analgesia**; *Behavioral*:**Alteration of operant conditioning**; *Behavioral*:**Alteration of classical conditioning**; **Reproductive:** Ingestion/Oral-Mouse TDLo • 12 mg/kg (12-15D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Craniofacial (including nose and tongue)**; Ingestion/Oral-Mouse TDLo • 30 mg/kg (6-15D preg); *Reproductive Effects:Effects on Fertility*:**Litter size (e.g., # fetuses per litter; measured before birth)**; Inhalation-Rabbit TCLo • 500 mg/m³ 24 Hour(s)(7-20D preg); *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; *Reproductive Effects:Effects on Embryo or Fetus*:**Fetal death**
p-Xylene (6.56765% TO 22.61619%)	106-42-3	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 3910 mg/kg; Inhalation-Rat LC50 • 4550 ppm 4 Hour(s); *Lungs, Thorax, or Respiration*:**Chronic pulmonary edema**; *Liver*:**Other changes**; *Blood*:**Changes in cell count (unspecified)**; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 900 ppm 4 Week(s)-Intermittent; *Sense Organs and Special Senses:Ear*:**Change in acuity**; Inhalation-Rat TCLo • 1000 ppm 6 Hour(s) 8 Day(s)-Intermittent; *Nutritional and Gross Metabolic:Gross Metabolite Changes*:**Weight loss or decreased weight gain**; *Behavioral*:**Food intake (animal)**; **Reproductive:** Inhalation-Mouse TCLo • 500 mg/m³ 12 Hour(s)(6-15D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; Inhalation-Rat TCLo • 150 mg/m³ 24 Hour(s)(7-14D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Extra embryonic structures**; *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**
Ethylbenzene (6.56765% TO 22.61619%)	100-41-4	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 3500 mg/kg; Inhalation-Guinea Pig LCLo • 2500 ppm 8 Hour(s); *Behavioral*:**Coma**; Inhalation-Human TCLo • 21700 mg/m³; *Behavioral*:**Antipsychotic**; Inhalation-Mouse TCLo • 600 ppm 6 Minute(s); *Lungs, Thorax, or Respiration*:**Respiratory depression**; Skin-Rabbit LD50 • 17800 µL/kg; **Irritation:** Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 15 mg 24 Hour(s)-Open • Mild irritation; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 550 ppm 8 Hour(s) 5 Day(s)-Intermittent; *Sense Organs and Special Senses:Ear*:**Change in acuity**; *Sense Organs and Special Senses:Ear*:**Changes in cochlear structure or function**; Inhalation-Rat TDLo • 200 ppm 13 Week(s)-Intermittent; *Sense Organs and Special Senses:Ear*:**Changes in cochlear structure or function**; **Mutagen:** Specific locus test • Intraperitoneal-Mouse • 754 µmol/L; Sister chromatid exchange • Unreported Route-Human • Lymphocyte (Somatic cell) • 10 mmol/L; Mutation in Mammalian Somatic Cells • Unreported Route-Mouse • Lymphocyte (Somatic cell) • 80 mg/L; **Reproductive:** Inhalation-Rabbit TCLo • 1 g/m³ 24 Hour(s)(7-20D preg); *Reproductive Effects:Effects on Fertility*:**Abortion**; Inhalation-Rat TCLo • 1000 ppm (6-20D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; Inhalation-Rat TCLo • 96 ppm 7 Hour(s)(1-19D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; Inhalation-Rat TCLo • 600 mg/m³ 24 Hour(s)(7-15D preg); *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; *Reproductive Effects:Effects on Embryo or Fetus*:**Fetal death**; *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; **Tumorigen / Carcinogen:** Inhalation-Mouse TCLo • 750 ppm 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Lungs, Thorax, or Respiration*:**Bronchiogenic carcinoma**; *Liver*:**Tumors**; Inhalation-Rat TCLo • 23400 mg/kg 104 Week(s)-Intermittent; *Tumorigenic*:**Equivocal tumorigenic agent by RTECS criteria**; *Kidney, Ureter, and Bladder*:**Kidney tumors**; *Reproductive Effects:Tumorigenic Effects*:**Testicular tumors**; Inhalation-Rat TCLo • 750 ppm 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Kidney, Ureter, and Bladder*:**Tumors**
o-Xylene (6.56765% TO 22.61619%)	95-47-6	**Acute Toxicity:** Inhalation-Mouse LC50 • 4595 ppm 6 Hour(s); **Reproductive:** Inhalation-Mouse TCLo • 500 mg/m³ 12 Hour(s)(6-15D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; Inhalation-Rat TCLo • 150 mg/m³ 24 Hour(s)(7-14D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Extra embryonic structures**; Inhalation-Rat TCLo • 1500 mg/m³ 24 Hour(s)(7-14D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; Inhalation-Rat TCLo • 3000 mg/m³ 24 Hour(s)(7-14D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**

Styrene, methyl- (24.34588815% TO 33.95193271%)	25013-15-4	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 2255 mg/kg; *Sense Organs and Special Senses:Eye*:**Lacrimation**; *Behavioral*:**Somnolence (general depressed activity)**; *Skin and Appendages:Other*:**Hair**; **Irritation:** Eye-Rabbit • 90 mg • Mild irritation; Skin-Rabbit • 100 % • Moderate irritation

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Acute Toxicity - Dermal 4 - ATEmix (Dermal) = 1592 mg/kg; Acute Toxicity - Inhalation 4 - ATEmix (inhl) = 7010 ppmV **OSHA HCS 2012** • Acute Toxicity - Inhalation 4 - ATEmix (inhl) = 7010 ppmV
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Skin Irritation 2
Serious eye damage/Irritation	**EU/CLP** • Data lacking **OSHA HCS 2012** • Eye Irritation 2
Skin sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Respiratory sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Aspiration Hazard	**EU/CLP** • Aspiration 1 **OSHA HCS 2012** • Aspiration 1
Carcinogenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Carcinogenicity 2
Germ Cell Mutagenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
Toxicity for Reproduction	**EU/CLP** • Data lacking **OSHA HCS 2012** • Toxic to Reproduction 2
STOT-SE	**EU/CLP** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation **OSHA HCS 2012** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	**EU/CLP** • Specific Target Organ Toxicity Repeated Exposure 2 **OSHA HCS 2012** • Specific Target Organ Toxicity Repeated Exposure 1

Potential Health Effects

Inhalation

Acute (Immediate)
- Harmful if inhaled. May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)
- Exposure to relatively low concentrations of ethylbenzene for several days to weeks resulted in potentially irreversible damage to the inner ear and hearing of animals. Exposure to p-Xylene may enhance hearing damage caused by exposure to noise.

Skin

Acute (Immediate)
- Harmful in contact with skin. Causes skin irritation.

Chronic (Delayed)
- No data available

Eye

Acute (Immediate)
- Causes serious eye irritation.

Chronic (Delayed)
- No data available

Ingestion

Acute (Immediate)
- May cause gastrointestinal irritation.

Chronic (Delayed)
- No data available

Carcinogenic Effects

- This material contains Ethylbenzene (100-41-4) which is classified by IARC as a Group 2B (Possibly Carcinogenic to Humans) substance.

Carcinogenic Effects		
	CAS	IARC
Ethylbenzene	100-41-4	Group 2B-Possible Carcinogen

Reproductive Effects

- Repeated and prolonged exposure may cause reproductive effects.

Key to abbreviations

LC = Lethal Concentration
LD = Lethal Dose
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

- Material data lacking.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1993	Flammable liquid, n.o.s. (Xylenes)	3	III	NDA
TDG	UN1993	FLAMMABLE LIQUID N.O.S. (Xylenes)	3	III	NDA

IMO/IMDG	UN1993	FLAMMABLE LIQUID N.O.S. (Xylenes)	3	III	NDA
IATA/ICAO	UN1993	Flammable liquid, n.o.s. (Xylenes)	3	III	NDA

14.6 Special precautions for user
- None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
- Fire, Acute

State Right To Know		
Component	**CAS**	**PA**
2,6-Di-tert-butyl-p-cresol	128-37-0	Yes
B-PBD	15082-28-7	No
Ethylbenzene	100-41-4	Yes
m-Xylene	108-38-3	Yes
o-Xylene	95-47-6	Yes
p-bis (o-Methylstyryl) Benzene	13280-61-0	No
p-Xylene	106-42-3	Yes
Styrene, methyl-	25013-15-4	Yes
Zinc stearate	557-05-1	Yes

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**China**	**EU EINECS**	**EU ELNICS**
2,6-Di-tert-butyl-p-cresol	128-37-0	Yes	No	Yes	Yes	No
B-PBD	15082-28-7	No	Yes	Yes	Yes	No
Ethylbenzene	100-41-4	Yes	No	Yes	Yes	No
m-Xylene	108-38-3	Yes	No	Yes	Yes	No
o-Xylene	95-47-6	Yes	No	Yes	Yes	No
p-bis (o-Methylstyryl) Benzene	13280-61-0	Yes	No	Yes	Yes	No
p-Xylene	106-42-3	Yes	No	Yes	Yes	No
Styrene, methyl-	25013-15-4	Yes	No	Yes	Yes	No
Zinc stearate	557-05-1	Yes	No	Yes	Yes	No

Inventory (Con't.)			
Component	**CAS**	**Korea KECL**	**TSCA**
2,6-Di-tert-butyl-p-cresol	128-37-0	Yes	Yes

B-PBD	15082-28-7	No	Yes
Ethylbenzene	100-41-4	Yes	Yes
m-Xylene	108-38-3	Yes	Yes
o-Xylene	95-47-6	Yes	Yes
p-bis (o-Methylstyryl)Benzene	13280-61-0	Yes	Yes
p-Xylene	106-42-3	Yes	Yes
Styrene, methyl-	25013-15-4	Yes	Yes
Zinc stearate	557-05-1	Yes	Yes

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

• o-Xylene	95-47-6	B2, D2B
• p-Xylene	106-42-3	B2, D2A, D2B
• m-Xylene	108-38-3	B2, D2B
• Styrene, methyl-	25013-15-4	B3, D2B
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	B2, D2A, D2B
• Zinc stearate	557-05-1	Uncontrolled product according to WHMIS classification criteria
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Canada - WHMIS 1988 - Ingredient Disclosure List

• o-Xylene	95-47-6	1 %
• p-Xylene	106-42-3	0.1 %
• m-Xylene	108-38-3	1 %
• Styrene, methyl-	25013-15-4	1 %
• 2,6-Di-tert-butyl-p-cresol	128-37-0	1 %
• Ethylbenzene	100-41-4	0.1 %
• Zinc stearate	557-05-1	1 %
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Environment

Canada - CEPA - Priority Substances List

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

China

Environment

China - Ozone Depleting Substances - First Schedule

• o-Xylene	95-47-6	Not Listed

• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

China - Ozone Depleting Substances - Second Schedule

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

China - Ozone Depleting Substances - Third Schedule

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Other

China - Annex I & II - Controlled Chemicals Lists

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

China - Dangerous Goods List

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Environment

Germany - TA Luft - Types and Classes

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed

• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed

• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• o-Xylene	95-47-6	ID Number 206, hazard class 2 - hazard to waters
• p-Xylene	106-42-3	ID Number 206, hazard class 2 - hazard to waters
• m-Xylene	108-38-3	ID Number 206, hazard class 2 - hazard to waters
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	ID Number 724, hazard class 1 - low hazard to waters
• Ethylbenzene	100-41-4	ID Number 99, hazard class 1 - low hazard to waters
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	ID Number 724, hazard class 2 - hazard to waters
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	ID Number 5173, hazard class 1 - low hazard to waters
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed

• B-PBD	15082-28-7	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• o-Xylene	95-47-6	
• p-Xylene	106-42-3	
• m-Xylene	108-38-3	
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	(listed under Ethyl benzene)
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• o-Xylene	95-47-6	1000 lb final RQ; 454 kg final RQ
• p-Xylene	106-42-3	100 lb final RQ; 45.4 kg final RQ
• m-Xylene	108-38-3	1000 lb final RQ; 454 kg final RQ
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	1000 lb final RQ; 454 kg final RQ
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed

• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• o-Xylene	95-47-6	1.0 % de minimis concentration
• p-Xylene	106-42-3	1.0 % de minimis concentration
• m-Xylene	108-38-3	1.0 % de minimis concentration
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	0.1 % de minimis concentration
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	carcinogen, 6/11/2004
• Zinc stearate	557-05-1	Not Listed

• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed

• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• o-Xylene	95-47-6	
• p-Xylene	106-42-3	
• m-Xylene	108-38-3	
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	
• Zinc stearate	557-05-1	
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Styrene, methyl-	25013-15-4	Not Listed
• 2,6-Di-tert-butyl-p-cresol	128-37-0	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Zinc stearate	557-05-1	Not Listed
• p-bis (o-Methylstyryl)Benzene	13280-61-0	Not Listed
• B-PBD	15082-28-7	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H225 - Highly flammable liquid and vapour

  R11 - Highly flammable.
  R20 - Harmful by inhalation.
  R38 - Irritating to skin.

Revision Date
- 22/March/2017

Preparation Date
- 22/March/2017

Disclaimer/Statement of Liability
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Key to abbreviations

NDA = No Data Available