

SAFETY DATA SHEET**X ST-5733-AS1000AS Blue Tint**Version Number 1.1
Revision Date 04/24/2014Page 1 of 11
Print Date 04/25/2014**SAFETY DATA SHEET****X ST-5733-AS1000AS Blue Tint****Section 1. Identification**

GHS product identifier : X ST-5733-AS1000AS Blue Tint
Chemical name : Mixture
CAS number : Mixture
Other means of identification : EM10031880
Product type : solid

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

Product use : Industrial applications. Plastics.
Supplier's details : **POLYONE CORPORATION**
33587 Walker Road, Avon Lake, OH 44012

1 (440) 930-1000 or 1 (866) POLYONE

Emergency telephone number (with hours of operation) : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status :
Classification of the substance or mixture : Not regulated.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General :

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 2 of 11
Print Date 04/25/2014

Prevention :
Response :
Storage :
Disposal :
Supplemental label elements :
Hazards not otherwise classified : Not available.

Section 3. Composition/information on ingredients

Substance/mixture :
Chemical name : Mixture
Other means of identification : EM10031880

CAS number/other identifiers

Ingredient name	%	CAS number
Styrene	0.2112	100-42-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact :
Inhalation :
Skin contact :
Ingestion :

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact :
Inhalation :

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 3 of 11
Print Date 04/25/2014

Skin contact :
Ingestion :

Over-exposure signs/symptoms

Eye contact :
Inhalation :
Skin contact :
Ingestion :

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician :
Specific treatments :

Protection of first-aiders :

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media :
Unsuitable extinguishing media :

Specific hazards arising from the chemical :

Hazardous thermal decomposition products :

Special protective actions for fire-fighters :

Special protective equipment for fire-fighters :

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel :
For emergency responders :

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 4 of 11
Print Date 04/25/2014

Environmental precautions :

Methods and materials for containment and cleaning up

Small spill :
Large spill :

Section 7. Handling and storage

Precautions for safe handling

Protective measures :
Advice on general occupational hygiene :

Conditions for safe storage, including any incompatibilities :

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Styrene	<p>OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 215 mg/m³ 50 ppm Short Term Exposure Limit 425 mg/m³ 100 ppm OSHA PEL Z2 (1993-06-30) PEL: Permissible Exposure Level 100 ppm Ceiling 200 ppm Acceptable Maximum Peak (AMP) 600 ppm NIOSH REL (1994-06-01) Time Weighted Average (TWA) 215 mg/m³ 50 ppm Short Term Exposure Limit 425 mg/m³ 100 ppm ACGIH TLV (1997-05-21) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 85 mg/m³ 20 ppm TLV-STEL: Threshold Limit Value - Short Time Exposure Level 170 mg/m³ 40 ppm</p>

Appropriate engineering controls :

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 5 of 11
Print Date 04/25/2014

Environmental exposure controls :

Individual protection measures

Hygiene measures :
Eye/face protection :

Skin protection

Hand protection :
Body protection :
Other skin protection :
Respiratory protection :

Section 9. Physical and chemical properties
Appearance

Physical state	:	solid [Pellets.]
Color	:	BLUE
Odor	:	Faint odor.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Lower: Not available. Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available. Kinematic: Not available.

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 6 of 11
Print Date 04/25/2014

Section 10. Stability and reactivity

Reactivity :
Chemical stability :
Possibility of hazardous reactions :
Conditions to avoid :
Incompatible materials :
Hazardous decomposition products :

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects
Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Styrene				
	LD50 Oral	Rat	2,650 mg/kg	-
	LC50 Inhalation	Rat	12 mg/l	4 h

Conclusion/Summary : Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Styrene	Eyes - Mild irritant	Human			-
	Skin - Mild irritant	Rabbit			-
	Skin - Moderate irritant	Rabbit			-
	Eyes - Severe irritant	Rabbit			-
	Eyes - Moderate irritant	Rabbit		24 hrs	-

Conclusion/Summary
Skin : Mixture.Not fully tested.

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 7 of 11
Print Date 04/25/2014

Eyes : Mixture.Not fully tested.
Respiratory : Mixture.Not fully tested.

Sensitization

Conclusion/Summary
Skin : Mixture.Not fully tested.
Respiratory : Mixture.Not fully tested.

Mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
Styrene		2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Teratogenicity

Conclusion/Summary : Mixture.Not fully tested.

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact :
Inhalation :
Skin contact :
Ingestion :

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 8 of 11
Print Date 04/25/2014

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :
Inhalation :
Skin contact :
Ingestion :

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Mixture. Not fully tested.

General :
Carcinogenicity :
Mutagenicity :
Teratogenicity :
Developmental effects :
Fertility effects :

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Styrene			

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 9 of 11
Print Date 04/25/2014

	Acute LC50 9.1 mg/l Marine water	Fish - Sheepshead minnow	96 h
	Acute LC50 4,020 µg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 4.7 mg/l Fresh water	Fish - Bluegill	96 h
	Acute LC50 23,000 µg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 4,700 µg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 720 µg/l Fresh water	Aquatic plants - Green algae	96 h
	Acute EC50 78,000 µg/l Marine water	Aquatic plants - Diatom	96 h
X ST-5733-AS1000AS Blue Tint			
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available as they are bound within the polymer matrix.		

Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix.

Persistence and degradability

Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix.

Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Styrene	2.96	13.49	low

Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Other adverse effects :

Section 13. Disposal considerations
Section 14. Transport information

SAFETY DATA SHEET

X ST-5733-AS1000AS Blue Tint

Version Number 1.1
Revision Date 04/24/2014

Page 10 of 11
Print Date 04/25/2014

- U.S. DOT Classification : Not regulated for transportation.
- ICAO/IATA : Consult mode specific transport rules
- IMO/IMDG (maritime) : Consult mode specific transport rules
- Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

Section 15. Regulatory information

- U.S. Federal regulations :
DEA List I Chemicals (Precursor Chemicals) :
DEA List II Chemicals (Essential Chemicals) :

US. EPA CERCLA Hazardous Substances (40 CFR 302)

SARA 311/312

- Classification : Acute Health Hazard
Chronic Health Hazard

Composition/information on ingredients

Name	%	Classification
Styrene	0.2112	F, AH

SARA 313

Not applicable.

State regulations

International regulations

- International lists :
Chemical Weapons Convention :
List Schedule I Chemicals

SAFETY DATA SHEET**X ST-5733-AS1000AS Blue Tint**

Version Number 1.1
Revision Date 04/24/2014

Page 11 of 11
Print Date 04/25/2014

Chemical Weapons Convention :
List Schedule II Chemicals
Chemical Weapons Convention :
List Schedule III Chemicals

Section 16. Other information**History**

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Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Notice to reader

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