ne

Version Number 1.0 Revision Date 09/10/2014 Page 1 of 15 Print Date 09/16/2014

## SAFETY DATA SHEET

#### X ST-TPE-8149-1B

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	:	X ST-TPE-8149-1B Mixture Mixture EM10033619 solid
	tance :	or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	<b>POLYONE CORPORATION</b> 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	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
	:	Not applicable.



Version Number 1.0 Revision Date 09/10/2014 Page 2 of 15 Print Date 09/16/2014

Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

### Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	EM10033619

CAS number/other identifiers

Ingredient name	%	CAS number
Carbon black	10 - 30	1333-86-4
Nickel	5 - 10	7440-02-0

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	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.



## SAFETY DATA SHEET X ST-TPE-8149-1B

Version Number 1.0 Revision Date 09/10/2014 Page 3 of 15 Print Date 09/16/2014

#### Most important symptoms/effects, acute and delayed

#### **Potential acute health effects**

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical atto	<u>entio</u>	n and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$ . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any

3/15



## SAFETY DATA SHEET X ST-TPE-8149-1B

Version Number 1.0 Revision Date 09/10/2014

### Page 4 of 15 Print Date 09/16/2014

		personal risk or without suitable training.
Special protective equipment for	:	Fire-fighters should wear appropriate protective equipment and self-
fire-fighters		contained breathing apparatus (SCBA) with a full face-piece operated
		in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for contain	ment a	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### **Precautions for safe handling**

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational	:	Eating, drinking and smoking should be prohibited in areas where this
hygiene		material is handled, stored and processed. Workers should wash hands
		and face before eating, drinking and smoking. Remove contaminated
		clothing and protective equipment before entering eating areas. See
		also Section 8 for additional information on hygiene measures.

Ine

## SAFETY DATA SHEET X ST-TPE-8149-1B

Version Number 1.0 Revision Date 09/10/2014 Page 5 of 15 Print Date 09/16/2014

Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

:

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits
Carbon black		OSHA PEL 1989 (1989-03-01)
		PEL: Permissible Exposure Level 3.5 mg/m3
		OSHA PEL (1993-06-30)
		PEL: Permissible Exposure Level 3.5 mg/m3
		NIOSH REL (1994-06-01)
		Time Weighted Average (TWA) 3.5 mg/m3
		Time Weighted Average (TWA)
		ACGIH TLV (2010-12-06)
		TLV-TWA: Threshold Limit Value - Time weighted average PEL:
		Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction
Nickel		ACGIH TLV (1998-09-01)
		TLV-TWA: Threshold Limit Value - Time weighted average PEL:
		Permissible Exposure Level 1.5 mg/m3 Form: Inhalable fraction
		OSHA PEL (1993-06-30) Calculated as Ni
		PEL: Permissible Exposure Level 1 mg/m3
		NIOSH REL (2010-09-01) Calculated as Ni
		Time Weighted Average (TWA) 0.015 mg/m3
		OSHA PEL 1989 (1989-03-01) Calculated as Ni
		PEL: Permissible Exposure Level 1 mg/m3
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker
		exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be
		checked to ensure they comply with the requirements of
		environmental protection legislation. In some cases, fume scrubbers,
		filters or engineering modifications to the process equipment will be
		necessary to reduce emissions to acceptable levels.
		E/1 E



## SAFETY DATA SHEET X ST-TPE-8149-1B

Version Number 1.0 Revision Date 09/10/2014

**Individual protection measures** 

### Page 6 of 15 Print Date 09/16/2014

Hygiene measures Eye/face protection	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

#### **Appearance**

Physical state	:	solid [Pellets.]
Color	:	NO PIGMENT
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.



## SAFETY DATA SHEET X ST-TPE-8149-1B

Version Number 1.0 Revision Date 09/10/2014 Page 7 of 15 Print Date 09/16/2014

:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	Lower: Not available.
	Upper: Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	insoluble in water.
:	Not available.
:	Dynamic: Not available.
	Kinematic: Not available.

## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 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
		7/1 5		



Version Number 1.0 Revision Date 09/10/2014 Page 8 of 15 Print Date 09/16/2014

LD50     Oral     Rat     15,400 mg/kg     -       Nickel     Initure.Not fully tested.     Initure.Not fully tested.     Initure.Not fully tested.       Conclusion/Summary     :     Mixture.Not fully tested.     Initure.Not fully tested.       Skin     :     Mixture.Not fully tested.     Initure.Not fully tested.       Eyes     :     Mixture.Not fully tested.     Initure.Not fully tested.       Sensitization     Initure.Not fully tested.     Initure.Not fully tested.       Skin     :     Mixture.Not fully tested.       Mutagenicity     Initure.Not fully tested.     Initure.Not fully tested.       Conclusion/Summary     :     Mixture.Not fully tested.       Carcinogenicity     Initure.Not fully tested.     Initure.Not fully tested.       Carbon black     2B     Initure.Not fully tested.       Nickel     2B     Initicip be a human carcino.       Reproductive toxicity     Initure.Not fully tested.     Initicip be a human carcino.       Reproductive toxicity     Initure.Not fully tested.     Initicip be a human carcino.       Specific target organ toxicity (single exposure)     Initure.Not fully tested.     Initu						Carbon black
Conclusion/Summary       :       Mixture.Not fully tested.         Irritation/Corrosion	-	15,400 mg/kg	nt	R	LD50 Oral	
Irritation/Corrosion         Conclusion/Summary         Skin       :         Press       :         Mixture.Not fully tested.         Respiratory       :         Mixture.Not fully tested.         Sensitization         Conclusion/Summary         Skin       :         Stain       :         Mixture.Not fully tested.         Respiratory       :         Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Carbon black       2B         Reasonably anticiption black         Nickel       2B         Reasonably anticiption black         Conclusion/Summary       :         Mixture.Not fully tested.         Conclusion/Summary       :         Mixture.Not fully tested.						
Conclusion/Summary         Skin       :       Mixture.Not fully tested.         Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization			lot fully tested.	Mixture.	:	Conclusion/Summary
Skin       :       Mixture.Not fully tested.         Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization       :       Mixture.Not fully tested.         Skin       :       Mixture.Not fully tested.         Skin       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       :       Mixture.Not fully tested.         Carbon Summary       :       Mixture.Not fully tested.         Carbon Diack       :       2B         Nickel       :       :       2B         Nickel       :       :       :         Conclusion/Summary       :       Mixture.Not fully tested.         Reproductive toxicity       :       2B       e a human carcino         Reproductive toxicity       :       :       :         Conclusion/Summary       :       Mixture.Not fully tested.       :         Specific target organ toxicity (single exposure)       :       :       :						Irritation/Corrosion
Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization						
Respiratory       :       Mixture.Not fully tested.         Sensitization						
Sensitization         Conclusion/Summary         Skin       :         Mixture.Not fully tested.         Respiratory       :         Mutagenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary       :         Product/ingredient name       OSHA         IARC       NTP         Carbon black       2B         Nickel       2B         Nickel       2B         Reasonably anticipa be a human carcino         Beproductive toxicity         Conclusion/Summary       :         Mixture.Not fully tested.         Specific target organ toxicity (single exposure)						
Conclusion/Summary Skin       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       .       Conclusion/Summary       :         Conclusion/Summary       :       Mixture.Not fully tested.       .         Carcinogenicity       .       .       .         Conclusion/Summary       :       Mixture.Not fully tested.       .         Classification       .       .       .         Product/ingredient name       OSHA       IARC       NTP         Carbon black       .       .       .         Nickel       .       .       .       .         Nickel       .       .       .       .         Reproductive toxicity       .       .       .       .         Conclusion/Summary       :       .       .       .       .         Reproductive toxicity       .       .       .       .       .       .         Conclusion/Summary       :       .       .       .       .       .       .         Specific target organ toxicity (single exposure)       :       .       .       .       .         Specific target organ toxi			ot fully tested.	Mixture.	:	Respiratory
Skin       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       :       Mixture.Not fully tested.         Carcinogenicity       :       Mixture.Not fully tested.         Carcinogenicity       :       Mixture.Not fully tested.         Classification       :       NTP         Carbon black       :       2B         Nickel       :       2B         Reproductive toxicity       :       Be a human carcino         Reproductive toxicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure)       :       Mixture.Not fully tested.						<b>Sensitization</b>
Respiratory       :       Mixture.Not fully tested.         Mutagenicity       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       Mixture.Not fully tested.       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Classification       IARC       NTP         Product/ingredient name       OSHA       IARC       NTP         Carbon black       2B       Reasonably anticipa be a human carcino.         Nickel       2B       Reasonably anticipa be a human carcino.         Reproductive toxicity       Mixture.Not fully tested.       Teratogenicity         Conclusion/Summary       :       Mixture.Not fully tested.       Specific target organ toxicity (single exposure)						
Mutagenicity       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       IARC       NTP         Carbon black       2B       Reasonably anticipation black         Nickel       2B       Reasonably anticipation black         Reproductive toxicity       :       Mixture.Not fully tested.         Reproductive toxicity       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure)       Mixture.Not fully tested.					:	
Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Product/ingredient name       OSHA       IARC       NTP         Carbon black       2B       Reasonably anticipa be a human carcino         Nickel       2B       Reasonably anticipa be a human carcino         Reproductive toxicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure)       :       Mixture.Not fully tested.			lot fully tested.	Mixture.	:	Respiratory
Carcinogenicity       : Mixture.Not fully tested.         Conclusion/Summary       : Mixture.Not fully tested.         Product/ingredient name       OSHA       IARC       NTP         Carbon black       2B       Reasonably anticipal be a human carcino         Nickel       2B       Reasonably anticipal be a human carcino         Reproductive toxicity       IMixture.Not fully tested.       Environmental be a human carcino         Conclusion/Summary       : Mixture.Not fully tested.       Imit tested.         Specific target organ toxicity (single exposure)       Imit tested.       Imit tested.						<b>Mutagenicity</b>
Conclusion/Summary       :       Mixture.Not fully tested.         Product/ingredient name       OSHA       IARC       NTP         Carbon black       2B       Reasonably anticipation         Nickel       2B       Reasonably anticipation         Reproductive toxicity       Ymmen       Ymmen         Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       Mixture.Not fully tested.         Specific target organ toxicity (single exposure)       Mixture.Not fully tested.			lot fully tested.	Mixture.	:	Conclusion/Summary
Classification       IARC       NTP         Product/ingredient name       OSHA       IARC       NTP         Carbon black       2B       Reasonably anticipation       Reasonably anticipation         Nickel       2B       Reasonably anticipation       Reasonably anticipation         Reproductive toxicity       2B       Reasonably anticipation         Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure)       :       Mixture.Not fully tested.						<b>Carcinogenicity</b>
Product/ingredient name       OSHA       IARC       NTP         Carbon black       2B       Reasonably anticipation black       Reasonably anticipation black         Nickel       2B       Reasonably anticipation black       Reasonably anticipation black         Nickel       2B       Reasonably anticipation black       Reasonably anticipation black         Reproductive toxicity       Image: State of the state of t			Not fully tested.	Mixture.	:	
Carbon black       2B         Nickel       2B         Reasonably anticipation         be a human carcino         Reproductive toxicity         Conclusion/Summary       : Mixture.Not fully tested.         Teratogenicity         Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure)		NTP	IARC		OSHA	
Nickel       2B       Reasonably anticipation be a human carcino, be a human						
Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure)       :						
Teratogenicity         Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure)						<u>Reproductive toxicity</u>
Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure)			lot fully tested.	Mixture.	:	Conclusion/Summary
Specific target organ toxicity (single exposure)						<u>Teratogenicity</u>
			lot fully tested.	Mixture.	:	Conclusion/Summary
				<u>sure)</u>	y (single expo	Specific target organ toxicity Not available.
<u>Specific target organ toxicity (repeated exposure)</u> Not available.				<u>(posure)</u>	y (repeated ex	



## SAFETY DATA SHEET X ST-TPE-8149-1B

Version Number 1.0 Revision Date 09/10/2014 Page 9 of 15 Print Date 09/16/2014

Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical, ch	emi	cal and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
<u>Delayed and immediate effects and a</u> <u>Short term exposure</u>	<u>lso c</u>	chronic effects from short and long 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	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Numerical measures of toxicity



Version Number 1.0 Revision Date 09/10/2014 Page 10 of 15 Print Date 09/16/2014

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure
Nickel	•		
	Acute LC50 0.000048 mg/l Fresh	Fish - Indian catfish	96 h
	water		
	Acute LC50 1.3 mg/l Fresh water	Fish - common carp	96 h
	Acute EC50 1,000 µg/l Marine	Aquatic invertebrates.	48 h
	water	Water flea	
	Acute EC50 2 mg/l Marine water	Aquatic plants - Giant kelp	96 h
	Chronic NOEC 0.025 mg/l Fresh	Fish - common carp	45 d
X ST-TPE-8149-1B	water		
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available	as they are bound within the	e polymer matrix
Conclusion/Summary	: Chemicals are not readi polymer matrix.	ily available as they are bou	nd within the
Persistence and degradability	Y		
Conclusion/Summary	: Chemicals are not readi polymer matrix.	ily available as they are bou	nd within the
Conclusion/Summary	: Chemicals are not readily available as they are bound within the		

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Nickel		5,613.00	high

polymer matrix.

#### **Mobility in soil**

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

10/15



Version Number 1.0 Revision Date 09/10/2014

#### Page 11 of 15 Print Date 09/16/2014

Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

### Section 14. Transport information

U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA	: Consult mode specific transport rules
IMO/IMDG (maritime)	: Consult mode specific transport rules

### Section 15. Regulatory information

U.S. Federal regulations	:	<b>United States - TSCA 12(b) - Chemical export notification:</b> None of the components are listed.
		United States - TSCA 4(a) - Final Test Rules: Not listed
		United States - TSCA 4(a) - ITC Priority list: Not listed
		United States - TSCA 4(a) - Proposed test rules: Not listed
		United States - TSCA 4(f) - Priority risk review: Not listed
		United States - TSCA 5(a)2 - Final significant new use rules: Not listed
		United States - TSCA 5(a)2 - Proposed significant new use rules:
		Not listed
		United States - TSCA 5(e) - Substances consent order: Not listed



Version Number 1.0	Page 12 of 15
Revision Date 09/10/2014	Print Date 09/16/2014

United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Nickel United States - EPA Clean water act (CWA) section 311 -Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed **United States - Department of commerce - Precursor chemical:** Not listed Listed Clean Air Act Section 112(b) : Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I Not listed : Substances Clean Air Act Section 602 Class II Not listed : Substances **DEA List I Chemicals (Precursor** Not listed :

Chemicals)	
------------	--

**DEA List II Chemicals (Essential** 

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	RQ for component
Nickel	7440-02-0	100 lb(s)
		45.4 kg

#### SARA 311/312

**Chemicals**)

Classification

Not applicable.

Not listed

•

:



Version Number 1.0 Revision Date 09/10/2014

Page 13 of 15 Print Date 09/16/2014

#### **Composition/information on ingredients**

Name	%	Classification
Carbon black	10 - 30	СН
Nickel	5 - 10	СН

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting	Nickel	7440-02-0	0
requirements			
Supplier notification	Nickel	7440-02-0	0

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

Massachusetts	: The following components are listed: Carbon black
	Nickel
	Graphite
New York	: The following components are listed: Nickel
New Jersey	: The following components are listed: Carbon black Nickel Graphite
Pennsylvania	: The following components are listed: Carbon black
	Nickel
	Graphite

<u>California Prop. 65</u> WARNING: This product contains a chemical known to the State of California to cause cancer.

United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.

#### **International regulations**

ne

## SAFETY DATA SHEET X ST-TPE-8149-1B

Version Number 1.0	Page 14 of 15
Revision Date 09/10/2014	Print Date 09/16/2014

International lists	:	<ul> <li>Australia inventory (AICS): Not determined.</li> <li>Taiwan inventory (CSNN): Not determined.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>EINECS: Not determined.</li> <li>Japan inventory: Not determined.</li> <li>China inventory (IECSC): Not determined.</li> <li>Korea inventory: Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): Not determined.</li> </ul>
Chemical Weapons Convention	:	Not listed
List Schedule I Chemicals		
Chemical Weapons Convention	:	Not listed
List Schedule II Chemicals		
Chemical Weapons Convention	:	Not listed
List Schedule III Chemicals		

### **Section 16. Other information**

History		
Date of printing	:	09/16/2014
Date of issue/Date of revision	:	09/10/2014
Date of previous issue	:	00/00/0000
Version	:	1.0
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)
		$\hat{U}N = United Nations$
References	:	Not available.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other



## SAFETY DATA SHEET X ST-TPE-8149-1B

Version Number 1.0 Revision Date 09/10/2014 Page 15 of 15 Print Date 09/16/2014

materials or in any process, unless specified in the text.