PolvOne

## MATERIAL SAFETY DATA SHEET X ST447-002-03

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1.	PROD	UCT AND COMPANY IDENTIFICATION
POLYONE CORPORAT 33587 Walker Road, Avo		OH 44012
Telephone Emergency telephone	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	X ST447-002-03
Product code	:	EM10025834
Chemical Name	:	Mixture
CAS-No.	:	Mixture
		Industrial Applications

### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Carbon	7440-44-0	10 - 30
Nickel	7440-02-0	10 - 30

### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

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.

#### POTENTIAL HEALTH EFFECTS

<b>Routes of Exposure:</b>	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes Skin	<ul> <li>Particulates, like other inert materials can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Particulates, like other inert materials can be mechanically irritating.</li> <li>Experience shows no unusual dermatitis hazard from routine handling.</li> </ul>
Chronic exposure	: Refer to Section 11 for Toxicological Information.

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Medical Conditions Aggravated by Exposure:	: None known.
	4. FIRST AID MEASURES
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases o doubt seek medical advice.
Ingestion	: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media	<ul> <li>not applicable</li> <li>not applicable</li> <li>not applicable</li> <li>Carbon dioxide blanket, Water spray, Dry powder, Foam.</li> </ul>
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	: Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.



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Storage

: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	No personal respiratory protective	equipment normally required.
Eye/Face Protection	Safety glasses with side-shields	
Hand protection	Protective gloves	
Skin and body protection	Long sleeved clothing	
Additional Protective Measures	Safety shoes	
General Hygiene Considerations	Handle in accordance with good i practice. Wash hands before brea	
Engineering measures	Heat only in areas with appropriat appropriate exhaust ventilation at	

Exposure limit(s)

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Components	Value	Exposure time	Exposure type	List:
Nickel	1.5 mg/m3	Time Weighted Average	Inhalable fraction.	ACGIH
		(TWA):		
	1 mg/m3	PEL:	as Ni	OSHA Z1
	1 mg/m3	Time Weighted Average		MX OEL
	_	(TWA):		

Form Appearance Colour Odour Melting point/ Boiling Point: Water solubilit	: not applicable	Evaporation ra Specific Gravi Bulk density Vapour pressu Vapour density pH	ty : Not determined : Not established re : not applicable
	10. STABILIT	<b>FY AND REACTIVITY</b>	
Stability Hazardous Pol Conditions to a	-	cur. ermal decomposition, do not	overheat.

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Incompatible Materials	:	Strong acids, oxidizing and reducing agents
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

#### **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.

**Toxicity Overview** 

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
7440-44-0	Carbon	Systemic effects	Respiratory system, heart or
			circulatory system.
7440-02-0	Nickel	Systemic effects	Skin, Respiratory system.

#### LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
7440-44-0	Carbon	Oral LD50	10,000 mg/kg	rat

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
7440-02-0	Nickel	no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 The component is known to be a human carcinogen.
- 2 The component is reasonably anticipated to be a human carcinogen.

#### Additional Health Hazard Information:

Nickel 7440-02-0 Skin sensitizer "nickel itch", with pulmonary, brain, liver, kidney and muscle effects.

#### **12. ECOLOGICAL INFORMATION**

Persistence and degradability	:	Not readily biodegradable.
Environmental Toxicity	:	Chemicals are not readily available as they are bound within the

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Bioaccumulation Potential		cals are not readily avai er matrix.	lable as they are bound within the	
Additional advice	: not app	licable		
	13. DISPO	OSAL CONSIDERAT	TIONS	
Product	possibl generat classifi	e recycling is preferred for of waste material has cation, transportation and	ics the product can be recycled. Where to disposal or incineration. The is the responsibility for proper waste nd disposal in accordance with netial and local regulations.	
Contaminated packaging	: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.			
	14. TRA	NSPORT INFORMAT	TION	
U.S. DOT Classification	: Not reg	gulated for transportatio	on.	
ICAO/IATA	: Refer to	: Refer to specific regulation.		
IMO/IMDG (maritime)	: Refer to	o specific regulation.		
	15. REGU	LATORY INFORMA	ATION	
US Regulations:				
OSHA Status	: Classif	ied as hazardous based	on components.	
TSCA Status		mponents of this produc Inventory.	ct are listed on or exempt from the	
US. EPA CERCLA Hazard	lous Substances (	40 CFR 302)		
Chemical Name	CAS-No.	RQ for component	RQ for Mixture/Product	
Nickel	7440-02-0	100 lbs	889 LB	
California Propositi 65		IING! This product cor nia to cause cancer.	ntains a chemical known to the State of	

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SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

U	nless specific chemicals are identified under this section, this	s product is Not Ap	plicable under this	s regulation
	Chemical Name	CAS-No.	Weight percent	
	NICKEL	7440-02-0	10.00 - 30.00	

Canadian Regulations:

National Pollutant Release Inventory (NPRI)			
Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Nickel	7440-02-0	10.00 - 30.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
7440-02-0

DSL

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS	: Listed
China IECS	: Listed
Europe EINECS	: Listed
Japan ENCS	: Not determined
Korea KECI	: Listed
Philippines PICCS	: Listed

:

### **16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The

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information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.