

Safety Data Sheet according to the Hazardous Products Regulation (February 11, 2015) Date of issue: 29 November 2017 Version: 2.0

roduct form : Mxture rade name : 88.9NU/11P/.1C MAX.(BNI-6) croduct goop : Trade product croduct goop : Trade product : Trade produc	SECTION 1: Identification	
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.3. Other hazards	2.3. Other hazards	

No additional information available

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2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Nickel	Nickel metal / Nickel, elemental / Nickel, metallic / Nickel, metal / C.I. 77775	(CAS-No.) 7440-02-0	>= 80	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400
Phosphorus	Phosphorus / Red phosphorus / Phosphorus, red / Phosphorus, amorphous / Phosphorus (amorphous, red) / Phosphorus amorphous / Phosphorus red / Phosphorus (red) / Phosphorus elemental (red) / Phosphorus (red, yellow, white) / Phosphorus, yellow, elementary / Phosphorus (white) / Phosphorus (yellow)	(CAS-No.) 7723-14-0	10 - 50	Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately.
First-aid measures general	: Call a physician immediately.
4.2. Most important symptoms and effect	cts (acute and delayed)
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
4.3. Immediate medical attention and sp	ecial treatment, if necessary
Other medical advice or treatment	: Treat symptomatically.

SECTI	ON 5: Fire-fighting measures	
5.1.	Suitable extinguishing media	
Suitable	extinguishing media	: Dry powder. Water spray. Foam.
5.2.	Unsuitable extinguishing media	
Unsuitab	le extinguishing media	: Water.
5.3.	Specific hazards arising from the ha	zardous product
Fire haza	ard	: Flammable solid.
5.4.	Special protective equipment and pr	ecautions for fire-fighters
Protectio	n during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTIO	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
No additio	onal information available	
6.2.	Methods and materials for containme	ent and cleaning up
For conta	inment	: Collect spillage.
Methods	for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other info	ormation	: Dispose of materials or solid residues at an authorized site.
6.3.	Reference to other sections	

For further information refer to section 8: "Exposure controls/personal protection"

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Keep cool. Protect from sunlight. Keep away from ignition sources. Store locked up. Store in a

well-ventilated place.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1 Nickel (7440-02-0) USA - ACGIH ACGIH TWA (mg/m³) 1.5 mg/m³ (inhalable particulate matter) USA - OSHA OSHA PEL (TWA) (mg/m3) 1 mg/m³ Canada (Quebec) VEMP (mg/m³) 1 mg/m³ OEL TWA (mg/m³) 1.5 mg/m³ Alberta British Columbia OEL TWA (mg/m³) 0.05 mg/m³ Manitoba OEL TWA (mg/m³) 1.5 mg/m³ (inhalable particulate matter) New Brunswick OEL TWA (mg/m³) 1 mg/m³ Newfoundland & Labrador OEL TWA (mg/m³) 1.5 mg/m³ (inhalable particulate matter) Nova Scotia OEL TWA (mg/m³) 1.5 mg/m³ (inhalable particulate matter) Nunavut OEL STEL (mg/m³) 3 mg/m³ (inhalable fraction) OEL TWA (mg/m³) 1.5 mg/m³ (inhalable fraction) Nunavut Northwest Territories OEL STEL (mg/m³) 3 mg/m³ (inhalable fraction) Northwest Territories OEL TWA (mg/m³) 1.5 mg/m³ (inhalable fraction) Ontario OEL TWA (mg/m³) 1 mg/m³ (inhalable) Prince Edward Island OEL TWA (mg/m³) 1.5 mg/m³ (inhalable particulate matter) Saskatchewan OEL STEL (mg/m³) 3 mg/m³ (inhalable fraction) Saskatchewan OEL TWA (mg/m³) 1.5 mg/m³ (inhalable fraction) Yukon OEL STEL (mg/m³) 3 mg/m³ Yukon OEL TWA (mg/m³) 1 mg/m³ Phosphorus (7723-14-0) Canada (Quebec) VEMP (mg/m³) 0.1 mg/m³ (yellow) Alberta OEL TWA (mg/m³) 0.1 mg/m³ (yellow) New Brunswick OEL TWA (mg/m³) 0.1 mg/m³ (yellow) New Brunswick OEL TWA (ppm) 0.02 ppm (yellow) 8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Appearance	: No data available
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable solid.
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Explosive limits	: Not applicable
9.2 Other information	

9.2. Other information

No additional information available

SECTION 10: Stability and reactiv	ity
10.1. Reactivity	
Reactivity	: Flammable solid.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicological	effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	

Nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg
LC50 inhalation rat (mg/l)	> 10.2 mg/l (Exposure time: 1 h)
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

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cording to the Hazardous Products Regulation (Februar	y 11, 2013)
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
	: Causes damage to organs through prolonged or repeated exposure.
STOT-repeated exposure	
Nickel (7440-02-0)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
SECTION 12: Ecological information	
2.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Very toxic to aquatic life.
Acute aquatic toxicity	: Very toxic to aquatic life.
Chronic aquatic toxicity	: Not classified
Nickel (7440-02-0)	
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
LC50 fish 2	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 72h algae (1)	0.18 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h algae (1)	0.174 - 0.311 mg/l (Species: Pseudokirchneriella subcapitata [static])
Phosphorus (7723-14-0)	
LC50 fish 1	0.0017 - 0.0035 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
LC50 fish 2	0.001 - 0.004 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	0.025 - 0.037 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
BCF fish 1	< 200
2.2. Persistence and degradability	
No additional information available	
2.3. Bioaccumulative potential	
Phosphorus (7723-14-0)	
BCF fish 1	< 200
12.4. Mobility in soil	
No additional information available	
2.5. Other adverse effects	
Dzone	: Not classified
J2016	
Phosphorus (7723-14-0)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes
SECTION 13: Disposal consideration	S
I3.1. Disposal methods	
	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECT	ON 14: Transport information
14.1.	Basic shipping description
In acc	ance with TDG
Transp	tation of Dangerous Goods
Not reg	ated for transport
14.2.	Transport information/DOT

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

ΙΑΤΑ

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

Nickel (7440-02-0)

Listed on the Canadian DSL (Domestic Substances List)

Phosphorus (7723-14-0)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Nickel (7440-02-0)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the United States TSCA (Toxic Substances Control Act) inventory Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on Turkish inventory of chemical Phosphorus (7723-14-0) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

SECTION 16: Other information

Date of issue

: 29 November 2017

Full text of H-statements:

	H317	May cause an allergic skin reaction.
	H351	Suspected of causing cancer.
	H372	Causes damage to organs through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.
	H412	Harmful to aquatic life with long lasting effects.

SDS Canada (GHS)

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