

SAFETY DATA SHEET NICKEL & NICKEL ALLOYS




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Section: 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product Name:	NICKEL & NICKEL ALLOYS BARE WIRE
Product Identification:	ERCuNi, ERNi-1, ERNiCu-7, ERNiCr-3, ERNiCr-4, ERNiCrFe-5, ERNiCrFe-6, ERNiCrFe-7, ERNiCrFe-11, ERNiFeCr-1, ERNiFeCr-2, ERNiMo-1, ERNiMo-2, ERNiMo-3, ERNiMo-7, ERNiMo-9, ERNiMo-10, ERNiCrMo-1, ERNiCrMo-2, ERNiCrMo-3, ERNiCrMo-4, ERNiCrMo-7, ERNiCrMo-8, ERNiCrMo-9, ERNiCrMo-10, ERNiCrMo-11, ERNiCrMo-13, ERNiCrMo-14, ERNiCrMo-15, ERNiCrCoMo-1, ERNiCrWMo-1, ERNi-CI, ERNiFe-CI
Supplier:	
Product Specification:	AWS A5.7, A5.14, A5.15
1.2 Relevant identified uses of the substance or mixture and uses advised against	
1.2.1 Relevant identified uses:	For welding consumables and related products.
1.2.2 Uses advised:	Reference the [7. Handling and storage]
1.3 Details of the supplier and of the safety data sheet:	
Supplier:	DURAMAX King of Prussia, PA 19406 1-888-426-4851 POISON CONTROL HOTLINE info@duramax.net
Emergency telephone number:	
Email:	

Section: 2 HAZARDS IDENTIFICATION

2.1 Classification of the mixture:	
The product is placed on the market in solid form	
General Hazard Statement: Solid metallic products are generally classified as “articles” and do not constitute a hazardous material in solid form under the definitions of the OSHA Hazard Communication Standard (29 CFR 1910.1200). Any articles manufactured from these solid products would be generally classified as non-hazardous. However some hazardous elements contained in these products can be emitted under certain processing conditions such as but not limited to: burning, melting, cutting, sawing, brazing, grinding, machining, milling, and welding. Products in the solid state present no fire or explosion hazard. Small chips, fines, and dust may ignite readily, though. The following classification information is for the hazardous elements which may be released during processing.	
2.1.1 Classification in accordance with GHS-US	
Skin Sens. 1	H317
Carc. 1B	H350
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 3	H412
2.2 Label elements:	
GHS-US Labeling	
Hazard Pictograms (GHS-US):	  
Single word (GHS-US): Danger	GHS07 GHS08 GHS09
Hazard statements (GHS-US):	
H317	May cause an allergic skin reaction
H350	May cause 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.
Precautionary statements:	
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release into the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water

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P308+PP313	If exposed or concerned: Get medical advice/attention.
P314	Get medical advice and attention if you feel unwell
P321	Specific treatment (see label)
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash before reuse
P391	Collect spillage
P405	Store locked up
P501	Dispose of contents and container in accordance with local/regional/national/international regulations.

2.3 Other hazards: No additional information available

2.4 Unknown acute toxicity (GHS-US): No data available.

Section: 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: No data available
Full text of H-phrases: See section 16

3.2 Mixtures: The mixture contains dangerous substances:

Substance Name	Product Identifier (CAS No)	% Percent	GHS-US Classification
Nickel (Ni)	7440-02-0	35 - 93	Skin Sens. 1, H317 Carc. 1B, H350 STOT RE 1, H372
Copper (Cu)	7440-50-8	0.08 - 64.9	Not classified
Chromium (Cr)	7440-47-3	<= 46	Not classified
Molybdenum (Mo)	7439-98-7	<= 32	Not classified
Iron (Fe)	7439-89-6	0.3 - 21	Acute Tox. 4 (Oral), H302
Tungsten (W)	7440-33-7	<= 15	Not classified
Manganese (Mn)	7439-96-5	0.03 - 4	Not classified
Silicon (Si)	7440-21-3	<= 4	Not classified
Titanium (Ti)	7440-32-6	0.2 - 3.5	Not classified
Vanadium pentoxide (V)	1314-62-1	<= 0.6	Not classified
Niobium (Nb)	7440-03-1	<= 0.6	Not classified

Section: 4 FIRST AID MEASURES

4.1 Description of first aid measures:

First-aid measures after inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

First-aid measures after skin contact: Flush with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

First-aid measures after eye contact: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists.

First-aid measures after ingestion: Do NOT induce vomiting. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Symptoms/injuries after inhalation: Short-term (acute) overexposure to the gases, fumes, and dusts may include irritation of the eyes, lungs, nose, and throat. Some toxic gases associated with welding may cause pulmonary edema, asphyxiation, and death. Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, difficulty in breathing, frequent coughing, or chest pain. The presence of chromium/chromate in fume can cause irritation of nasal membranes and skin. The presence of nickel compounds in fume can cause metallic taste, nausea, tightness of chest, fever, and allergic reaction. Excessive inhalation or ingestion of manganese can produce manganese poisoning. Overexposure to manganese compounds may affect the central nervous system, symptoms of which are languor, sleepiness, muscular weakness, emotional disturbances, and spastic gait resembling Parkinsonism. These symptoms can become progressive and permanent if not treated. Excessive inhalation of fumes may cause "Metal Fume Fever" with Flu-like symptoms such as chills, fever, body aches, vomiting, sweating, etc.

Symptoms/injuries after skin contact: Dusts may cause irritation.

Symptoms/injuries after eye contact: Causes eye irritation.

Symptoms/injuries after ingestion: Not an anticipated route of exposure during normal product handling. May be harmful if ingested.

4.3 Indication of any immediate medical attention and special treatment needed: No data available.

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Section: 5 FIREFIGHTING MEASURES

- 5.1 Extinguishing media:**
Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media: No data available.
- 5.2 Special hazards arising from the substance or mixture:** Fire may produce irritating or poisonous gases.
Fire Hazard: Not Flammable
Explosion Hazard: None Known
- 5.3 Advice for firefighters:** In the event of fire, wear self-contained breathing apparatus and full protective gear.

Section: 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:**
For non-emergency personnel: Wear appropriate personal protective equipment as specified in Section 8. Ensure adequate ventilation.
For emergency responders: No data available.
- 6.2 Environmental precautions:** Avoid release into the environment. Avoid dispersal of spilled material and contact with soil, ground and surface water drains and sewers.
- 6.3 Methods and material for containment and cleaning up:** Take up mechanically. Collect the material in labeled containers and dispose of according to local and regional authority requirements.
- 6.4 Reference to other sections:** See Section 7 for information of safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Section: 7 HANDLING AND STORAGE

- 7.1 Precautions and safe handling:** Welding may produce dust, fumes and gases hazardous to health. Avoid breathing dust, fumes and gases. Use adequate ventilation. Keep away from sources of ignition. Avoid contact with skin, eyes and clothing. Do not eat, drink and smoke in work areas.
- 7.2 Conditions for safe storage, including and incompatibilities:** Store in cool, dry and well-ventilated place. Keep away from incompatible materials. Keep away from heat and open flame.
- 7.3 Specific end use(s):** For welding consumables and related products.

Section: 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters:** Exposure limits were not established for this product

Nickel	(Cas No) 7440-02-0	
USA ACGIH	ACGIH (TWA) (mg/m ³)	1.5 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1.0 mg/m ³
Chromium	(CAS No) 7440-47-3	
USA ACGIH	ACGIH (TWA) (mg/m ³)	0.5 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1.0 mg/m ³
Copper	(CAS No) 7440-50-8	
USA ACGIH	ACGIH (TWA) (mg/m ³)	0.2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1.0 mg/m ³
Vanadium pentoxide	(CAS No) 1314-62-1	
USA ACGIH	ACGIH TWA (mg/m ³)	0.05 mg/m ³
Manganese	(CAS No) 7439-96-5	
USA ACGIH	ACGIH (TWA) (mg/m ³)	0.1 mg/m ³
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	5.0 mg/m ³
Molybdenum	(CAS No) 7439-98-7	
USA ACGIH	ACGIH TWA (mg/m ³)	3.0 mg/m ³
Tungsten	(CAS No) 7440-33-7	
USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
USA ACGIH	ACGIH STEL (mg/m ³)	10 mg/m ³
Silicon	(CAS No) 7440-21-3	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5.0 mg/m ³

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8.2 Exposure controls:

Appropriate engineering controls: Local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection: Wear welding gloves.

Eye protection: Wear helmet or face shield with filter lens of appropriate shade number. See ANSI/ASC Z49.1 Section 4.2.

Provide protective screens and flash goggles, if necessary, to shield others.

Skin and body protection: Wear head and body protection, which help to prevent injury from radiation, sparks, flame and electrical shock. See ANSI Z49.1. At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing. Train the employee not to touch live electrical parts and to insulate him/herself from work and ground. Welders should not wear short sleeve shirts or short pants.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Section: 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state:	Solid
Appearances:	Rods or wire
Color	Metallic
Odor:	None
Odor threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Self ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Relative vapour density at 20° C:	No data available
Relative density:	No data available
Solubility(ies)	No data available
Log Pow:	No data available
Log Kow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Explosive limits:	No data available

9.2 Other information: No additional information available.

Section: 10 STABILITY AND REACTIVITY

- 10.1 Reactivity:** No additional information available.
- 10.2 Chemical stability:** The product is stable under normal conditions. When using it may produce dangerous fumes and gases.
- 10.3 Possibility of hazardous reactions:** Will not occur.
- 10.4 Conditions to avoid:** None
- 10.5 Incompatible materials:** None

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10.6 Hazardous decomposition products: Welding fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure and welding consumables used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coating on the metal being welded (i.e. paint, painting, galvanizing), the number of welders, the volume of the work area, the quality and the amount of ventilation, the position of the welders head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from the cleaning and degreasing activities). When an electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Fume and gas decomposition, and not the ingredients in the electrode, are important. The concentration of a given fume or gas component may decrease or increase by many times the original concentration. Also, new compounds not in the electrodes may form. Decomposition products of normal operation include those originating from the volatilization, reaction or oxidation of the materials shown in Section 3, plus those from the base metal coating, etc., as noted above. Reasonable expected fume constituents of this product would include: Complex oxides of iron, manganese, silicon, chromium, nickel, columbium, molybdenum, copper, carbon dioxide, carbon monoxide, ozone and nitrogen oxides. Some products will also contain antimony, barium, molybdenum, aluminum, columbium, magnesium, strontium, tungsten, and or zirconium. Fume limit for chromium, nickel and or manganese may be reached before limit of 5 mg/m³ of general welding fumes is reached. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits. See ANSI/AWS F1.1, F1.3 and F1.5, available from the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126.

Section: 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: Acute toxicity: Not classified

Substance name	CAS number	LD50 oral rat (mg/kg)	ATE (oral) (mg/kg)	Comments
Nickel	7440-02-0	> 9000 mg/kg		
Iron	7439-89-6	984 mg/kg	984.000 mg/kg	
Manganese	7439-96-5		9000000.000 mg/kg	
Silicon	7440-21-3		3160.000 mg/kg	
Substance name	CAS number	LD50 oral rat (mg/kg)	LD50 Dermal Rabbit	LC50 Inhalation Rat (mg/l)
Vanadium pentoxide	1314-62-1	221.1 - 715.7mg/kg	50mg/kg	2.21mg/l/4h

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:

May cause cancer.

Substance name	CAS number	Agency	Risk Factor
Nickel	7440-02-0	IARC Group National Toxicology Program (NTP) Status	2B- Possibly carcinogenic to humans 3- Reasonably anticipated to be Human Carcinogen
Chromium	7440-47-3	IARC Group	3- Reasonably anticipated to be Human Carcinogen
Vanadium pentoxide	1314-62-1	IARC Group National Toxicology Program (NTP) Status	2B- Possibly carcinogenic to humans 1- Carcinogenic to humans

Reproductive toxicity:

Not classified

Specific target organ toxicity (single exposure):

Not classified

Specific target organ toxicity (repeated exposure):

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard:

Not classified

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Section: 12 ECOLOGICAL INFORMATION

- 12.1 Toxicity:**
Ecology - general: Very toxic to aquatic life.

Iron	(CAS No) 7439-89-6
LC50 fishes 1	13.6 mg/l (Exposure time: 96 h - Species: Morone saxatilis [static])
LC50 fish 2	0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
Nickel	(CAS No) 7440-02-0
LC50 fishes 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	0.18 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 2	0.174 - 0.311 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])
Copper	(CAS No) 7440-50-8
LC50 fishes 1	0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 1	0.0426 - 0.0535 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 other aquatic organisms 2	0.031 - 0.054 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])

12.2 Persistence and degradability: No additional information available.

12.3 Bioaccumulative potential: No additional information available.

12.4 Mobility in soil: No additional information available.

12.5 Other adverse effects: No additional information available.

Section: 13 DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods:** Dispose of in accordance with local and national regulations.
Waste disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section: 14 TRANSPORT INFORMATION

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

- 14.1 UN Number:** Not a dangerous good in sense of transport regulations
14.2 UN proper shipping name: Not applicable

Section: 15 REGULATORY INFORMATION

15.1 US Federal Regulations:

Nickel	(CAS No) 7440-02-0
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings) SARA Section 313 - Emission Reporting 0.1%	
Iron	(CAS No) 7439-89-6
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Chromium	(CAS No) 7440-47-3
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings) SARA Section 313 - Emission Reporting 1.0%	
Copper	(CAS No) 7440-50-8
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings) SARA Section 313 - Emission Reporting 1.0%	
Vanadium pentoxide	(CAS No) 1314-62-1
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 302 (Specific toxic chemical listings) SARA Section 302 - Threshold Planning Quantity (TPQ) <=10000	

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Manganese (CAS No) 7439-96-5

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 313 (Specific toxic chemical listings)
SARA Section 313 - Emission Reporting 1.0%

Molybdenum (CAS No) 7439-98-7

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

Niobium (CAS No) 7440-03-1

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

Silicon (CAS No) 7440-21-3

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

Titanium (CAS No) 7440-32-6

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

Tungsten (CAS No) 7440-33-7

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

15.1 US State Regulations:

Nickel (CAS No) 7440-02-0

U.S. - California - Proposition 65 - Carcinogens List
U.S. - California - Proposition 65 - Developmental Toxicity
U.S. - California - Proposition 65 - Reproductive Toxicity - Female
U.S. - California - Proposition 65 - Reproductive Toxicity - Male
No significance risk level (NSRL)
U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Vanadium pentoxide (CAS No) 1314-62-1

U.S. - California - Proposition 65 - Carcinogens List
U.S. - California - Proposition 65 - Developmental Toxicity
U.S. - California - Proposition 65 - Reproductive Toxicity - Female
U.S. - California - Proposition 65 - Reproductive Toxicity - Male
No significance risk level (NSRL)
U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Chromium (CAS No) 7440-47-3

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Copper (CAS No) 7440-50-8

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Manganese (CAS No) 7439-96-5

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Molybdenum (CAS No) 7439-98-7

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

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Silicon (CAS No) 7440-21-3

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Titanium (CAS No) 7440-32-6

U.S. - New Jersey - Right to Know Hazardous Substance List

Tungsten (CAS No) 7440-33-7

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Section: 16 OTHER INFORMATION

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 1B	Carcinogenicity, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H350	May cause 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.

NFPA health hazard:

NFPA fire hazard:

NFPA reactivity:

1- Exposure could cause irritation but only minor residual injury even if no treatment is given.

0- Materials will not burn

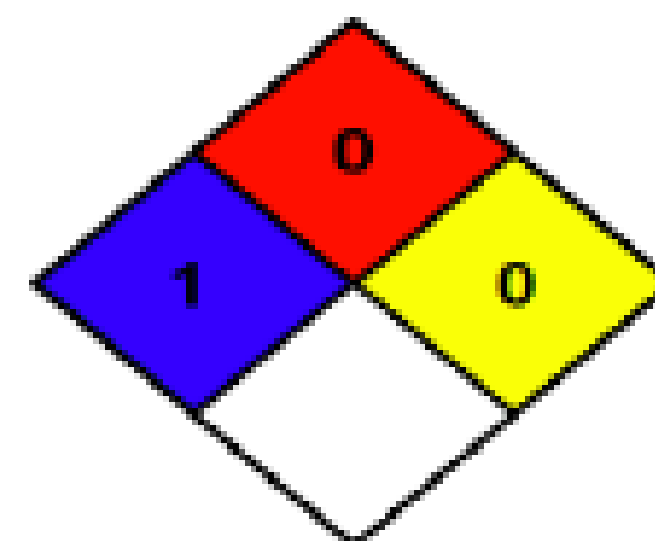
0- Normally stable, even under fire exposure conditions, and are not reactive with water

HMIS III Rating

Health: 2- Moderate Hazard - Temporary or minor injury may occur

Flammability: 0- Minimal Hazard

Physical: 0- Minimal Hazard



We believe that the information contained herein is believed to be true and accurate as of the date of this SDS. All statements or suggestions are made without any warranty, expressed or implied, regarding the accuracy of the information, the hazard connected with the use of this material or the results to be obtained for use thereof. As the condition or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. It is the user's obligation to determine the conditions of safe use of these products.

All chemical products can in fact present unknown risks to health, safety and / or the environment, even in relation to the different operating conditions, and they must therefore be used with care. For this reason we cannot guarantee that the risk described in this form are the only foreseeable risks. The user must therefore satisfy himself as to the particular conditions under which it is intended to be use in. Moreover, it must be noted that the user is obliged to comply with all the legislative, administrative and regulatory provisions regarding the product and its use in terms of occupational hygiene and safety, and environmental protection, apart from the information given in the form, given purely as guidance.

Technical Department