

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Denago E13 18 Commute 1.0 Model eBike

1.2. Intended Use of the Product

Use of the Substance/Mixture: Bicycle transportation and recreation

1.3. Name, Address, and Telephone of the Responsible Party

BIKE USA, Inc dba DENAGO

301 Alpha Road Suite 66-122

Dallas, TX 75240-4355

USA

877-755-2453

www.BIKE.com / www.denago.com

1.4. Emergency Telephone Number

Emergency Number : VelocityEHS
(800)255-3924 (North America)
+1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Acute toxicity (inhalation:dust,mist) Category 2	H330
Serious eye damage/eye irritation Category 2	H319
Carcinogenicity Category 1B	H350
Specific target organ toxicity (repeated exposure) Category 1	H372
Hazardous to the aquatic environment - Chronic Hazard Category 3	H412

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H319 - Causes serious eye irritation.
H330 - Fatal if inhaled.
H350 - May cause cancer (Inhalation).
H372 - Causes damage to organs (dental/bone fluorosis, lungs, kidneys) through prolonged or repeated exposure.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe fume, gas, mist, spray, vapors.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P284 - [In case of inadequate ventilation] wear respiratory protection.
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center or doctor.
P314 - Get medical advice/attention if you feel unwell.
P320 - Specific treatment is urgent (see section 4 on this SDS).

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P337+P313 - If eye irritation persists: Get medical advice/attention.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Cobalt lithium manganese nickel oxide	Lithium cobalt manganese nickel oxide	(CAS-No.) 182442-95-1	≤ 80	Acute Tox. 2 (Inhalation), H330 Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 3, H412
Steel manufacture, chemicals	Steel manufacture, chemicals (This category includes the chemical substances which are manufactured as part of steel and alloy steels. The following list identifies those elements which may exist in steel or which may comprise compounds present in steel or alloy steels. Aluminum, beryllium, boron, calcium, carbon, cerium, chromium, cobalt, copper, hafnium, iron, lanthanum, lead, magnesium, manganese, molybdenum, nickel, niobium, nitrogen, oxygen, phosphorus, selenium, silicon, sulfur, tantalum, tin, titanium, tungsten, vanadium, yttrium, zinc, zirconium.)	(CAS-No.) 65997-19-5	< 76	Not classified
Carbon	Carbon, activated / Activated carbon / Carbon Black / Graphite / Active carbon	(CAS-No.) 7440-44-0	10 – 30	Comb. Dust
1,3-Dioxolan-2-one	Ethylene carbonate / Carbonic acid, cyclic ethylene ester / Cyclic ethylene carbonate / Ethylene glycol carbonate / Glycol carbonate / 2-Oxo-1,3-dioxolan / 2-Dioxolanone	(CAS-No.) 96-49-1	10 – 20	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 STOT RE 2, H373
Copper	C.I. 77400 / C.I. Pigment Metal 2 / Copper, elemental / Copper metal / Copper, metallic	(CAS-No.) 7440-50-8	2 – 10	Comb. Dust
Aluminum	Aluminium / Aluminum, metal / Aluminum, elemental / C.I. 77000 / Pigment Metal 1	(CAS-No.) 7429-90-5	2 – 10	Comb. Dust
1,1-Difluoroethylene polymer	Ethene, 1,1-difluoro-, homopolymer / Homopolymer, ethene, 1,1-difluoro- / Polyvinylidene fluoride / Polyvinylidene fluoride resin / Poly(vinylidene fluoride) / Poly(1,1-difluoroethene) / Vinylidene fluoride homopolymer / Polymer of 1,1-difluoroethene	(CAS-No.) 24937-79-9	< 5	Comb. Dust
Styrene-butadiene copolymer	Benzene, ethenyl-, polymer with 1,3-butadiene / Butadiene-styrene copolymer / Butadiene-styrene polymer / 1,3-Butadiene-styrene polymer / Butadiene-styrene resin / Styrene-1,3-butadiene copolymer / Styrene-butadiene polymer / Styrene-butadiene rubber / Polymer of styrene and 1,3-butadiene / Styrene homopolymer and 1,3-butadiene homopolymer, block copolymer / Polymer of buta-1,3-diene/styrene	(CAS-No.) 9003-55-8	< 1	Comb. Dust

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: The following first aid measures apply in case of exposure to the interior battery components, if the battery is damaged and exposure occurs.

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First-aid Measures After Inhalation: For exposure to battery contents: First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid Measures After Skin Contact: For exposure to battery contents: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

First-aid Measures After Eye Contact: For exposure to battery contents: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: For exposure to battery contents: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Exposure to battery contents may result in the following: May be fatal if inhaled. Causes damage to organs (bone, lungs, kidney) through prolonged or repeated exposure. May cause cancer by inhalation. Causes serious eye irritation.

Symptoms/Injuries After Inhalation: Exposure to materials housed in battery: May be fatal if inhaled in significant amounts.

Symptoms/Injuries After Skin Contact: Exposure to materials housed in battery: May cause mild skin irritation.

Symptoms/Injuries After Eye Contact: Exposure to materials housed in battery: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Exposure to materials housed in battery: Ingestion may cause adverse effects.

Chronic Symptoms: Exposure to materials housed in battery: May cause cancer by inhalation. May cause damage to organs (bone, tooth, lungs, kidneys) through prolonged or repeated exposure.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO₂). Dry chemical powder. Foam. Sand/earth. Water spray, fog (flooding amounts).

Unsuitable Extinguishing Media: Application of water to product may generate heat and increase fire intensity.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Battery may rupture/explode when exposed to excessive heat or fire, if overcharged, short circuited, punctured, or crushed.

Reactivity: Batteries are non-reactive under normal conditions of storage and use. If the internal contents are leaked lithium ion batteries may react with incompatible materials such as water, acids, bases, oxidizers, and reducing agents and form corrosive, irritating, and harmful fumes and by-products. If the battery is damaged, the interaction of water or water vapor and exposed lithium hexafluorophosphate may result in the generation of hydrogen and hydrogen fluoride (HF) gas.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Remove containers from fire area if this can be done without risk. Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Hydrogen Fluoride (HF). Lithium oxides. Metal oxides. Phosphorus oxides.

Other Information: Batteries may explode in fire. Damaged batteries can result in rapid heating and the release of flammable vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not handle until all safety precautions have been read and understood. Product itself under normal conditions of use is not considered hazardous, for materials housed within product: Do not breathe fumes. Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

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Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. If battery is not damaged cleanup spills mechanically, and put into approved container for disposal. If battery is damaged and/or leaking: Using shovel or broom, cover battery or spilled substances with dry sand or vermiculite, place in approved container and dispose in accordance with local regulations. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May release corrosive vapors.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Since this product is a sealed battery, normal handling hazards are minimal unless the battery is damaged or the internal contents are exposed. Do not get in eyes, on skin, or on clothing. Do not breathe dust, vapors, spray from inner battery components. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Batteries should be separated from other materials and stored in a noncombustible, well ventilated, sprinkler-protected structure with sufficient clearance between walls and battery stacks. Do not store batteries in a manner that allows terminals to short circuit. Do not place batteries near heating equipment, nor expose to direct sunlight for long periods. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Water.

7.3. Specific End Use(s)

Bicycle transportation and recreation

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Copper (7440-50-8)		
USA ACGIH	ACGIH OEL TWA	0.2 mg/m ³ (fume)
USA NIOSH	NIOSH REL TWA	1 mg/m ³ (dust and mist) 0.1 mg/m ³ (fume)
USA IDLH	IDLH	100 mg/m ³ (dust, fume and mist)
USA OSHA	OSHA PEL TWA	0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Aluminum (7429-90-5)		
USA ACGIH	ACGIH OEL TWA	1 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL TWA	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL TWA	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Nickel compounds		
USA NIOSH	NIOSH REL TWA	0.015 mg/m ³ (except Nickel carbonyl)
USA IDLH	IDLH	10 mg/m ³ (except Nickel carbonyl)

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Manganese compounds		
USA NIOSH	NIOSH REL TWA	1 mg/m ³
USA NIOSH	NIOSH REL STEL	3 mg/m ³
USA IDLH	IDLH	500 mg/m ³
USA OSHA	OSHA PEL Ceiling	5 mg/m ³

8.2. Exposure Controls

Appropriate Engineering Controls

: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when toxic gases may be released.

Personal Protective Equipment

: Not required under normal conditions of use. When handling damaged batteries: . Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: No data available
Odor	: Odorless
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: Water: Insoluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Batteries are non-reactive under normal conditions of storage and use. If the internal contents are leaked lithium ion batteries may react with incompatible materials such as water, acids, bases, oxidizers, and reducing agents and form corrosive, irritating, and harmful fumes and by-products. If the battery is damaged, the interaction of water or water vapor and exposed lithium hexafluorophosphate may result in the generation of hydrogen and hydrogen fluoride (HF) gas.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

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10.4. Conditions to Avoid

Do not heat, expose to fire, disassemble, short circuit, immerse in water, or abuse batteries.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers. Water.

10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Hydrogen Fluoride (HF). Carbon oxides (CO, CO₂). Lithium oxides. Metal oxides.

Phosphorus oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Exposure to the internal contents of the battery may result in:

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Fatal if inhaled.

Denago E13 18 Commute 1.0 Model eBike	
ATE (Dust/Mist)	0.06 mg/l/4h
Copper (7440-50-8)	
LC50 Inhalation Rat	> 5.11 mg/l/4h
Aluminum (7429-90-5)	
LC50 Inhalation Rat	> 0.888 mg/L/4h (No deaths)
Cobalt lithium manganese nickel oxide (182442-95-1)	
ATE (Dust/Mist)	0.05 mg/l/4h
Carbon (7440-44-0)	
LD50 Oral Rat	> 10000 mg/kg
1,3-Dioxolan-2-one (96-49-1)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 26420 mg/kg
LC50 Inhalation Rat	> 730 mg/m ³ (Exposure time: 8 h)

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer (Inhalation).

Nickel compounds	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (dental/bone fluorosis, lungs, kidneys) through prolonged or repeated exposure.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Exposure to materials housed in battery: May be fatal if inhaled in significant amounts.

Symptoms/Injuries After Skin Contact: Exposure to materials housed in battery: May cause mild skin irritation.

Symptoms/Injuries After Eye Contact: Exposure to materials housed in battery: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Exposure to materials housed in battery: Ingestion may cause adverse effects.

Chronic Symptoms: Exposure to materials housed in battery: May cause cancer by inhalation. May cause damage to organs (bone, tooth, lungs, kidneys) through prolonged or repeated exposure.

Other information: Exposure to the internal contents of the battery may result in:

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Harmful to aquatic life with long lasting effects.

1,3-Dioxolan-2-one (96-49-1)	
LC50 Fish	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

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12.2. Persistence and Degradability

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Persistence and Degradability	May cause long-term adverse effects in the environment.
Copper (7440-50-8)	
Persistence and Degradability	Not readily biodegradable.

12.3. Bioaccumulative Potential

Denago E13 18 Commute 1.0 Model eBike	
Bioaccumulative Potential	Not established.
1,3-Dioxolan-2-one (96-49-1)	
Partition coefficient n-octanol/water (Log POW)	0.11 (at 20 °C (at pH >5.33-<5.79))

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Material should be recycled if possible. Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Batteries should be completely discharged prior to disposal and/or the terminals taped or capped to prevent short circuit.

Ecology - Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : BATTERY-POWERED VEHICLE
Hazard Class : 9
Identification Number : UN3171
Label Codes : 9
ERG Number : 154



14.2. In Accordance with IMDG

Proper Shipping Name : BATTERY-POWERED VEHICLE
Hazard Class : 9
Identification Number : UN3171
Label Codes : 9A
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-I



14.3. In Accordance with IATA

Proper Shipping Name : BATTERY-POWERED VEHICLE
Identification Number : UN3171
Hazard Class : 9
Label Codes : 9
ERG Code (IATA) : 9L



SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Denago E13 18 Commute 1.0 Model eBike	
SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure) Health hazard - Carcinogenicity Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure)
Copper (7440-50-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	

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CERCLA RQ	5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm
SARA Section 313 - Emission Reporting	1 %
Aluminum (7429-90-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 % (dust or fume only)
1,1-Difluoroethylene polymer (24937-79-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Cobalt lithium manganese nickel oxide (182442-95-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. S - S - indicates a substance that is identified in a final Significant New Use Rule. 5E - 5E - indicates a substance that is the subject of a TSCA section 5E order.
Styrene-butadiene copolymer (9003-55-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Carbon (7440-44-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Steel manufacture, chemicals (65997-19-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
1,3-Dioxolan-2-one (96-49-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Nickel compounds	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 % (includes any unique chemical substance that contains Nickel as part of that chemical's infrastructure)
Manganese compounds	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 % (includes any unique chemical substance that contains Manganese as part of that chemical's infrastructure)

15.2. US State Regulations

Copper (7440-50-8)	
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
Aluminum (7429-90-5)	
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
1,3-Dioxolan-2-one (96-49-1)	
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List	
Manganese compounds	
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
Nickel compounds	
U.S. - New Jersey - Right to Know Hazardous Substance List	


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U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

California Proposition 65

 **WARNING:** This product can expose you to Nickel compounds, which is known to the State of California to cause cancer.
For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Nickel compounds	X			

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 11/09/2022
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

H302	Harmful if swallowed
H319	Causes serious eye irritation
H330	Fatal if inhaled
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

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.

SDS US (GHS HazCom)