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Version 1

1. IDENTIFICATION**Product Identifier****Product Name** Secondary Sealed Nickel-Metal Hydride Rechargeable Batteries**Other means of identification****SDS #** POWER-004**Other Information** Nominal Voltage: 1.2V.**Recommended use of the chemical and restrictions on use****Recommended Use** Battery**Details of the supplier of the safety data sheet****Manufacturer Address**Power-Sonic Corporation
7550 Panasonic Way
San Diego, CA 92154**Emergency Telephone Number****Company Phone Number** 1-619-661-2020**Emergency Telephone (24 hr)** INFOTRAC 1-800-535-5053 (domestic), 1-352-323-3500 (International)**2. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: This product is a secondary sealed nickel-metal hydride battery. The information below is intended for repeated and prolonged contact with the battery contents in an occupational setting. In the absence of an incident or accident, it is not likely to apply to normal product use. However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product. Always be aware of the risk of fire, explosion, or burns. Do not short circuit the (+) and (-) terminals with any other metals. Do not disassemble or modify the battery. Do not solder a battery directly. Keep away from fire or open flame.

Appearance Battery**Physical State** Solid Article**Classification**

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

Signal Word**Danger**

Hazard Statements

Harmful if swallowed

Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

Suspected of causing genetic defects

May cause cancer

May damage fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Precautionary Statements - Response

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Call a poison center or doctor/physician

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

29% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Iron	7439-89-6	23-27
Nickel	7440-02-0	17-23
Manganese	7439-96-5	6-9
Lanthanum	7439-91-0	6-9
Cerium	7440-45-1	6-9
Neodymium	7440-00-8	6-9
Potassium hydroxide	1310-58-3	2-3
Nickel hydroxide	12054-48-7	2-3
Lithium Hydroxide	1310-65-2	2-3
Cobalt Hydroxide	21041-93-0	2-3
Caustic Soda	1310-73-2	2-3

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

- Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- Skin Contact** Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a poison center or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention.
- Inhalation** Remove to fresh air. Seek immediate medical attention/advice.
- Ingestion** Call a physician or Poison Control Center.

Most important symptoms and effects

- Symptoms**
- Inhalation: During normal use inhalation is highly unlikely due to the containment of hazardous materials inside the sealed battery case. However, if the batteries are exposed to extreme heat or pressure causing a breach in the battery cell case, cadmium fumes and dust may be emitted. Inhalation of cadmium dusts or fumes may cause throat dryness, respiratory irritation, headache, nausea, vomiting, chest pain, extreme restlessness and irritability, pneumonitis and bronchopneumonia. In the case of high concentration exposures (e.g. above 1 to 5mg/m³ during an eight hour period) death may occur within several days of exposure.
- Ingestion: If the battery case is breached in the digestive tract, the electrolyte may cause localized burns. Ingestion of cadmium compounds may result in increased salivation, choking, nausea, persistent vomiting, diarrhea, abdominal pain, amnesia, tenesmus, and kidney dysfunction.
- Skin Contact: Exposure to the electrolyte inside the battery may result in severe irritation and chemical burns. Exposure to nickel may cause dermatitis for some sensitive individuals. May cause an allergic skin reaction.
- Eye Contact: Exposure to the electrolyte contained inside the battery may result in severe irritation and chemical burns.

Indication of any immediate medical attention and special treatment needed

- Notes to Physician** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Confining and smothering metal fires is preferable rather than applying water. Dry chemical, soda ash, lime or sand.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

See Section 2, Hazard Statements. Exposure to temperatures above 212 °F can cause venting of the liquid electrolyte, internal shorting could also cause venting of the electrolyte. There is potential for exposure to iron, nickel, cobalt, rare earth metals (cerium, lanthanum, neodymium and praseodymium), manganese and aluminum fumes during a fire.

Hazardous Combustion Products See "Specific Hazards" above.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Other Information The sealed NiMH cells when sleeved are safe if spilled. Non sleeved cells may generate short-circuits, causing release of alkaline electrolyte mist or liquid. Electrolyte reacts with zinc, aluminum, tin and other active materials releasing flammable hydrogen gas. In such case, use self-contained breathing apparatus and protective clothing.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Collect all released material in a plastic lined container. Report all spills in accordance with Federal, State and Local reporting requirements.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe the dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from heat, sparks, flame. Protect from moisture. Store away from incompatible materials. Prevent condensation on cells or battery terminals. Elevated temperatures may result in reduced battery life. Storage temperatures should be within the range of 40°F (5°C) to 77°F (25°C) in a 65 +/- relative humidity. Accidental short circuit will bring high temperature elevation to the battery as well as shorten the battery life. Be sure to avoid prolonged short circuit since the heat generated can burn skin and even rupture the battery cell case. Batteries packaged in bulk containers should not be shaken. Metal covered tables or belts used for the assembly of batteries into devices can be the source of short circuits; apply insulating material to assembly work surfaces. Soldering/Welding: If soldering or welding to the case is required consult our Technical Department for proper precautions to prevent seal damage or external short circuit. Charging: These batteries are designed for recharging. A loss of voltage and capacity of the battery due to self- discharge during prolonged storage is unavoidable. Charge battery before use. Observe the specified charge rate since higher rates can cause a rise in internal gas pressure which may result in damaging heat generation or cell rupture and/or venting. Do not mix with other battery types.

Incompatible Materials

Potential incompatibilities: The battery cells are encased in a non-reactive container; however, if the container is breached, avoid contact of internal battery components with acids, aldehydes and carbonate compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nickel 7440-02-0	TWA: 1.5 mg/m ³ inhalable fraction	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³	IDLH: 10 mg/m ³ Ni TWA: 0.015 mg/m ³ except Nickel carbonyl Ni
Manganese 7439-96-5	TWA: 0.02 mg/m ³ Mn TWA: 0.1 mg/m ³ Mn	(vacated) TWA: 1 mg/m ³ fume (vacated) STEL: 3 mg/m ³ fume (vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn	IDLH: 500 mg/m ³ Mn TWA: 1 mg/m ³ Mn STEL: 3 mg/m ³ Mn
Nickel hydroxide 12054-48-7	TWA: 0.2 mg/m ³ Ni inhalable fraction	TWA: 1 mg/m ³ Ni (vacated) TWA: 1 mg/m ³ Ni	IDLH: 10 mg/m ³ Ni TWA: 0.015 mg/m ³ except Nickel carbonyl Ni
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Caustic Soda 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Cobalt Hydroxide 21041-93-0	TWA: 0.02 mg/m ³ Co	-	-

Appropriate engineering controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

None needed under normal conditions. If handling damaged or broken batteries use chemical splash goggles or face shield.

Skin and Body Protection

None needed under normal conditions. If battery case is damaged use rubber or plastic gloves.

Respiratory Protection

None required under normal conditions. If battery is overcharged and concentrations of components are known to exceed PEL use NIOSH or MSH approved respiratory protection.

General Hygiene Considerations Handle batteries carefully to avoid damaging the case. Do not allow metallic articles to contact the battery terminals during handling. Avoid contact with the internal components of the battery.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid Article	Odor	Not determined
Appearance	Battery	Odor Threshold	Not determined
Color	Not determined		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	Not determined	
Water Solubility	Insoluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
See Sec. 7 Handling & Storage. Exposure to temperatures above 212 °F can cause venting of the liquid electrolyte, internal shorting could also cause venting of the electrolyte. There is potential for exposure to iron, nickel, cobalt, rare earth metals (cerium, lanthanum, neodymium and praseodymium), manganese and aluminum fumes during a fire.

Incompatible Materials
Potential incompatibilities: The battery cells are encased in a non-reactive container; however, if the container is breached, avoid contact of internal battery components with acids, aldehydes and carbonate compounds.

Hazardous Decomposition Products
See hazardous combustion products (Section 5).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

- Eye Contact** Causes severe eye damage.
- Skin Contact** Causes severe skin burns.
- Inhalation** Avoid inhalation of dust.
- Ingestion** Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron 7439-89-6	= 984 mg/kg (Rat)	-	-
Nickel 7440-02-0	> 9000 mg/kg (Rat)	-	-
Manganese 7439-96-5	= 9 g/kg (Rat)	-	-
Nickel hydroxide 12054-48-7	= 1515 mg/kg (Rat)	> 2 g/kg (Rat)	= 1200 mg/m ³ (Rat) 4 h
Potassium hydroxide 1310-58-3	= 284 mg/kg (Rat)	-	-
Lithium Hydroxide 1310-65-2	= 120 mg/kg (Rat) = 210 mg/kg (Rat)	-	= 960 mg/m ³ (Rat) 4 h
Caustic Soda 1310-73-2	-	= 1350 mg/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- Sensitization** May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Germ cell mutagenicity** Suspected of causing genetic defects.
- Carcinogenicity** May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Nickel 7440-02-0		Group 1	Known Reasonably Anticipated	X
Nickel hydroxide 12054-48-7	A1	Group 1	Known	X
Cobalt Hydroxide 21041-93-0	A3	Group 2B		X

Legend

- ACGIH (American Conference of Governmental Industrial Hygienists)**
A1 - Known Human Carcinogen
A3 - Animal Carcinogen
- IARC (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
- NTP (National Toxicology Program)**
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)**
X - Present

- Reproductive toxicity** May damage fertility or the unborn child.
- STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity 29% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

41% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Iron 7439-89-6		13.6: 96 h <i>Morone saxatilis</i> mg/L LC50 static		
Nickel 7440-02-0	0.18: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 0.174 - 0.311: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static	100: 96 h <i>Brachydanio rerio</i> mg/L LC50 1.3: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static 10.4: 96 h <i>Cyprinus carpio</i> mg/L LC50 static		100: 48 h <i>Daphnia magna</i> mg/L EC50 1: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Potassium hydroxide 1310-58-3		80: 96 h <i>Gambusia affinis</i> mg/L LC50 static		
Caustic Soda 1310-73-2		45.4: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Potassium hydroxide 1310-58-3	0.65 0.83

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

- Disposal of Wastes** NiMH cells do not contain cadmium, mercury or lead. The storage battery is TCLP toxic. If not recycled, the battery must be disposed of in accordance with all state and local regulations.
- Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Nickel 7440-02-0		Included in waste streams: F006, F039		

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Nickel 7440-02-0	Toxic powder Ignitable powder
Manganese 7439-96-5	Ignitable powder
Potassium hydroxide 1310-58-3	Toxic Corrosive
Caustic Soda 1310-73-2	Toxic Corrosive
Cobalt Hydroxide 21041-93-0	Toxic

14. TRANSPORT INFORMATION

Note

Power-Sonic sealed Nickel Metal Hydride batteries are considered to be "dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and the International Maritime Organization (IMO).

The only requirements for shipping these batteries by DOT is Special Provision 130 which states: "Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals). The only requirements for shipping these batteries by ICAO and IATA is Special Provision A123 which states: "An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short-circuit. (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals) is forbidden from transportation."

The International Maritime Dangerous Goods Code (IMDG) regulate them for ocean transportation under Special Provision 304 which says: "Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the provisions of this Code provided the batteries are securely packed and protected against short-circuits. Examples of such batteries are: alkali-manganese, zinc-carbon, nickel metal hydride and nickel-cadmium batteries.

DOT

Not regulated See note above

IATA

Not regulated See note above

IMDG

Marine Pollutant

See note above and see note below
This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Iron	Present	X		Present			X	Present	X	X
Nickel	Present	X		Present			X	Present	X	X
Manganese	Present	X		Present			X	Present	X	X
Lanthanum	Present	X		Present				Present	X	X
Cerium	Present	X		Present				Present	X	X
Neodymium	Present	X		Present			X	Present		X
Potassium hydroxide	Present	X		Present		Present	X	Present	X	X
Nickel hydroxide	Present	X		Present		Present	X	Present	X	X
Lithium Hydroxide	Present	X		Present		Present	X	Present	X	X
Cobalt Hydroxide	Present	X		Present		Present	X	Present		X
Caustic Soda	Present	X		Present		Present	X	Present	X	X

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*
- AICS - Australian Inventory of Chemical Substances*

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Nickel 7440-02-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Nickel hydroxide 12054-48-7	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Caustic Soda 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Nickel - 7440-02-0	7440-02-0	17-23	0.1
Manganese - 7439-96-5	7439-96-5	6-9	1.0
Nickel hydroxide - 12054-48-7	12054-48-7	2-3	0.1
Cobalt Hydroxide - 21041-93-0	21041-93-0	2-3	0.1

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nickel		X	X	
Nickel hydroxide		X		X
Potassium hydroxide	1000 lb			X
Caustic Soda	1000 lb			X

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Nickel - 7440-02-0	Carcinogen
Nickel hydroxide - 12054-48-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Nickel 7440-02-0	X	X	X
Cerium 7440-45-1	X		
Manganese 7439-96-5	X	X	X
Nickel hydroxide 12054-48-7	X	X	X
Potassium hydroxide 1310-58-3	X	X	X
Caustic Soda 1310-73-2	X	X	X
Cobalt Hydroxide 21041-93-0	X		X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards Not determined	Flammability Not determined	Physical Hazards Not determined	Personal Protection Not determined

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Disclaimer

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 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.

End of Safety Data Sheet