

MATERIAL SAFETY DATA SHEET



Date Issued: 09/03/2010
MSDS No: N15C

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: NICKEL CRYSTALS

MANUFACTURER

Caswell Inc
7696 Route 31
Lyons, NY 14489

Emergency Contact: Caswell Inc

Product Stewardship: 315 946 1213

Transportation: 800 424 9300

Service Number: 315 946 1213

Caswell Inc
7696 Route 31
Lyons, NY 14489
USA

Emergency Contact: Caswell Inc

Emergency Phone: +1 315 946 1213

Service Number: +1 315 946 1213

Transportation Number: +1 703 527 3887

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US TRANSPORTATION) - 1 800 424
9300

CHEMTREC (INTERNATIONAL - CALL COLLECT) -
1 703 527 3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS




Health	Environmental
Acute Toxicity (Oral), Category 3 Acute Toxicity (Inhalation), Category 4 Skin Corrosion, Category 3 Respiratory Sensitization, Category 1 Skin Sensitization, Category 1 Carcinogenicity, Category 1A Reproductive Toxicity, Category 2 Target Organ Toxicity (Repeated exposure), Category 2	Aquatic Toxicity, Chronic 1

GHS LABEL

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 Skull and crossbones	 Environment
DANGER	DANGER
<p>H301: Toxic if swallowed. H332: Harmful if inhaled. H317: May cause an allergic skin reaction. 9242258Q: Causes damage to lungs through prolonged or repeated inhalation exposure. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p>	<p>H410: Very toxic to aquatic life with long lasting effects.</p>
 Health hazard	
DANGER	
<p>H360: May damage fertility or the unborn child . H350: May cause cancer .</p>	
<p>PRECAUTIONARY STATEMENT(S)</p> <p>Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection. P270: Do not eat, drink or smoke when using this product. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P285: In case of inadequate ventilation wear respiratory protection. P202: Do not handle until all safety precautions have been read and understood. P273: Avoid release to the environment.</p> <p>Response: P301+A1600: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. 8524GZTR: IF SWALLOWED: Induce vomiting immediately, as directed by medical personnel. Seek medical attention immediately.</p> <p>Disposal: 5692C3NH: Dispose of contents/container in accordance to all local, state and federal regulations.</p>	

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation.

SKIN: Long term exposure to skin may cause skin irritation and may cause sensitization or allergic reactions resulting in chronic eczema or "nickel itch"

INGESTION: Harmful if swallowed.

INHALATION: Dust and processing vapors may cause respiratory tract irritation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

CARCINOGENICITY: Cancer hazard.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Nickel Sulfate	70 - 80	7786-81-4	- -
Nickel Chloride	10 - 15	7718-54-9	- -
Boric Acid	5 - 10	11113-50-1	234-343-4

4. FIRST AID MEASURES

EYES: Flush eye with water for 15 minutes. Get medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: Not flammable

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

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spills immediately, observing precautions in Protective Equipment section.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not allow to reach sewer or water source.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing.

HANDLING: Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Nickel Sulfate	TWA		1		0.1

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: Wear gloves.

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RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Wear suitable protective clothing at all times.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: None

APPEARANCE: Green crystal

SOLUBILITY IN WATER: 62

SPECIFIC GRAVITY: 2.070

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION PRODUCTS: When heating in air, toxic SO₂/SO₃ gas can be formed

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 275 mg/kg (rat)

CARCINOGENICITY

IARC: Suspect cancer hazard.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Toxic to aquatic life

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Comply with all local, state and federal laws.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Environmentally Hazardous Substances, Solids, N.O.S.

TECHNICAL NAME: Nickel Sulfate

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: UN3077

PACKING GROUP: III

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Class 9

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TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Boric Acid	11113-50-1

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

CALIFORNIA PROPOSITION 65: WARNING: This product contains a chemical known to the State Of California to cause cancer and/or reproductive harm.

16. OTHER INFORMATION

REASON FOR ISSUE: Add GHS Info

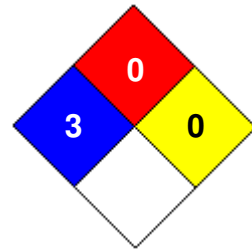
PREPARED BY: L CASWELL

REVISION SUMMARY: New MSDS

HMIS RATING

HEALTH:	*	3
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		C

NFPA CODES



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