



OMG AMERICAS, INC.
127 Public Square
1500 Key Tower
Cleveland, Ohio 44114

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NICKEL HYDROXYCARBONATE POWDER
PRODUCT CODE: 00577

MANUFACTURING LOCATION:
OMG AMERICAS, INC.
TWO MILE RUN ROAD
VENANGO COUNTY, FRANKLIN, PA 16323

DATE REVISED: 10/14/2004
DATE PRINTED: 10/14/2004

IN CASE OF EMERGENCY CONTACT:
8:00 a.m. to 5:00 p.m. (EST): 440-899-2950
After 5:00 p.m.(EST): 814-432-2125

CHEMICAL FAMILY/USE: Inorganic salt
CHEMICAL FORMULA: NA

HMIS: HEALTH: 1*
FLAMMABILITY: 0
REACTIVITY: 0
PERSONAL PROTECTION: E

*Chronic health hazard

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component/CAS number	Percent	ACGIH TLV:	ACGIH Short Term Exposure Limit (STEL) value:	OSHA PEL:	OSHA Short Term Exposure Limit (STEL) value:	Units that the TWAs and STELs for ACGIH and OSHA are in:
Nickel Carbonate Hydroxide 12607-70-4	100	0.1**	NE	1	NE	mg/m3

**For Nickel, Soluble compounds, as Ni

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Light green powder. Causes allergic contact dermatitis. Human carcinogen of the paranasal sinuses and lungs. Irritating to the eyes, respiratory system and skin. May cause occupational asthma, both immediate and delayed onset.

EYE CONTACT:

May cause eye irritation.

SKIN CONTACT:

May cause an allergic contact dermatitis which by definition requires prior nickel exposure. Does not cause immediate irritant contact dermatitis. Because nickel exposure is common in the non-occupational environment, a prior workplace is not necessary for allergic dermatitis to develop. Once established, skin sensitization to nickel is permanent.

INGESTION:

May be harmful if swallowed.

INHALATION:

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Inhalation is the route of exposure associated with being "carcinogenic to humans." See Section 11, Toxicological Information. May cause irritation to the nose and paranasal sinuses. Asthma is unlikely, but possible.

4. FIRST AID MEASURES

EYES:

Flush immediately with large amounts of water and continue flushing for 15 minutes or until irritation subsides, whichever is longer.

SKIN:

Remove victim from contaminated area. Wash immediately and thoroughly with soap or mild detergent and water. Remove and isolate contaminated clothing, jewelry, and shoes. Gently brush away excess solid contaminant. Consult a physician if irritation persists.

INHALATION:

Move the exposed person to fresh air at once. If indicated, a qualified pre-hospital medical provider (such as a first responder or EMT) may give oxygen. Contact a physician.

INGESTION:

Give large amounts of water to drink if person is completely conscious. Get medical attention as a precaution.

MEDICAL CONDITIONS AGGRAVATED:

Chronic respiratory and skin diseases may be aggravated by exposure to this material.

NOTE TO PHYSICIAN:

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

FLASH POINT (° F) Not Applicable

OSHA FLAMMABILITY CLASSIFICATION:

Not Applicable.

EXTINGUISHING MEDIA:

Not applicable. Product does not burn.

SPECIAL FIREFIGHTING PROCEDURES:

Wear self-contained breathing apparatus, when large quantities are involved.

EXPLOSION LIMITS IN AIR - LOWER (%) Unknown

EXPLOSION LIMITS IN AIR - UPPER (%) Unknown

AUTOIGNITION TEMP (° F) Unknown

UNUSUAL FIRE AND EXPLOSION HAZARDS:

High concentrations of dust may present a dust explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

The spill should first be contained and the area should be cleaned by wet-sweeping or vacuum cleaning (HEPA filter). Minimize the creation of dust. Approved NIOSH respirator for dust should be worn.

ADDITIONAL ACTION IF MATERIAL IS SPILLED ONTO SURFACE WATER BODIES:

The California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65) prohibits contaminating any known source of drinking water with substances known to cause cancer and/or reproductive toxicity.

7. HANDLING AND STORAGE

HANDLING:

Avoid contact with skin and eyes. Avoid breathing dust. Use only with adequate ventilation. Always use gloves and safety glasses when opening/emptying containers or processing this material. Do not eat or drink in work area. Wash in soap and water after exposure to any dust.

STORAGE:

Partly used containers should be sealed. This material should be stored in sealed containers to avoid dampness and dust.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Proper ventilation should be installed in order to maintain nickel dust concentration in the air below the occupational exposure limits.

RESPIRATORY PROTECTION EQUIPMENT:

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Use NIOSH approved respiratory protection where airborne level exceeds appropriate occupational exposure limit.

PROTECTIVE GLOVES:

Gloves, rubber or impervious coating.

EYE AND FACE PROTECTION:

Wear safety glasses or face shield in operations that do scatter fine particles in the air.

OTHER PROTECTIVE EQUIPMENT:

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

VENTILATION:

Use local exhaust ventilation directed towards the source of dust and which is adequate to limit personal exposure to levels which do not exceed the PEL or TLV. If such equipment is not available use respirators as specified above.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range/Point	Unknown
Vapor Pressure	Not Applicable
Vapor Density (AIR=1)	Not Applicable
Freezing Point	Unknown
Melting Point	Unknown
Physical State	Powder
Color	Light Green
% Volatile by Weight	Not Applicable
% Volatile by Volume	Not Applicable
Evaporation Rate (Butyl Acetate=1)	Not Applicable
Specific Gravity @ 25°C	0.5 g per cubic centimeter
Weight per gallon	4.1 lbs.

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Toxic fumes of nickel oxide.

INCOMPATIBILITY (MATERIALS TO AVOID):

Contact with acids can cause foaming.

CONDITIONS TO AVOID:

Avoid dust generation.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

Refer to the most recent assessment by the International Agency for Research on Cancer (IARC). This organization's website is www.iarc.fr. Nickel compounds are found in Volume 49 of the monographs. Nickel compounds are classified as Group 1 meaning "carcinogenic to humans" for paranasal and lung cancer.

The National Toxicology Program (NTP) has classified Nickel Compounds as "Known to Human Carcinogens", based on sufficient evidence of carcinogenicity from studies in humans, including epidemiological and mechanistic information, which indicates a casual relationship between exposure to nickel compounds and cancer. Refer to the NTP 10th Report on Carcinogens on the organization's website, <http://ntp-server.niehs.nih.gov>.

Causes allergic contact dermatitis. As many as 15% of women and 5% of men in the general population with no history of occupational nickel exposure may be sensitized to nickel based on patch testing. Non-occupational exposure to nickel resulting in contact dermatitis has occurred from jewelry, white gold, metal clothing fasteners, wrist watches, and dental prostheses. Nickel sensitization is permanent. A "nickel itch" may proceed a rash by up to seven days. The rash may take many forms, but typically a papular erythema appears first on the hands, which spread later to the exposed areas on the arms. More chronic forms of nickel contact dermatitis appear similar to atopic dermatitis or neurodermatitis. Eruptions that are distant from the site of contact have been described.

PHILIPPINE INVENTORY:

This product is listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).

CHINESE INVENTORY:

This product is listed on the Chinese Inventory of Existing Chemical Substances.

16. OTHER INFORMATION**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:**

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

17. LABEL INFORMATION**SIGNAL WORD:**

CAUTION

TARGET ORGANS:

Causes allergic contact dermatitis. Human carcinogen of the paranasal sinuses and lungs. Irritating to the eyes, respiratory system and skin. May cause occupational asthma, both immediate and delayed onset.

CANCER HAZARD (contains nickel carbonate hydroxide which) can cause cancer. Risk of cancer depends on duration and level of exposure.

EYES:

Flush immediately with large amounts of water and continue flushing for 15 minutes or until irritation subsides, whichever is longer.

SKIN:

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INHALATION:

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INGESTION:

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HANDLING:

Avoid contact with skin and eyes. Avoid breathing the dust. Use with adequate ventilation. Always use an approved respirator for dust, gloves and safety glasses when opening/emptying containers or processing this material. Do not eat or drink in work area. Wash in soap and water after exposure to any dust.

STORAGE:

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EXTINGUISHING MEDIA:

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