

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Nickel (II) hydroxide

1. Product and Company Identification

Trade Name: Nickel (II) hydroxide

Chemical Formula: Ni(OH)₂

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word:

Danger







Hazard Statements:

H302+H332: Harmful if swallowed or if inhaled

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341: Suspected of causing genetic defects.

H350: May cause cancer.

H360: May damage fertility or the unborn child.

H372: Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalative.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P260: Do not breathe dust/ fume/ gas/ mist/ vapors/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the

workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves.

P281: Use personal protective equipment as required.

P285: In case of inadequate ventilation wear respiratory protection.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

 $P304 + P340 + P312: IF\ INHALED:\ Remove\ victim\ to\ fresh\ air\ and\ keep$

at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/ physician if you feel unwell.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/

attention.

P362: Take off contaminated clothing and wash before reuse.

P391: Collect spillage.

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

3. Composition

Chemical Family: Salt

Additional Names: Nickel dihydroxide

Nickel (II) hydroxide (Ni(OH)₂):

Percentage: 100 wt% CAS #: 12054-48-7 EC #: 235-008-5

| ention if symptoms persist. |
|--|
| o fresh air. Supply ovygon if broothing is difficult |
| o fresh air. Supply overgon if breathing is difficult |
| o fresh air Sunnly ovygen if breathing is difficult |
| o fresh air. Supply oxygen if breathing is difficult. rm. Seek immediate medical attention. |
| medical attention. |
| sh affected area with mild soap and water. Remove any othing. Seek immediate medical attention. |
| water, blinking often for several minutes. Remove |
| present and easy to do. Continue rinsing. Seek cal attention. |
| Measures |
| |
| ctions – use suitable extinguishing agent for |
| erial and type of fire. |
| lf-contained breathing apparatus with full protective |
| ent contact with skin and eyes. See section 10 for roducts. |
| |
| ase Measures |
| e respiratory and protective equipment specified in n information. Keep unprotected persons away. Isolate ovide ventilation. Vacuum up spill using a high ulate absolute (HEPA) air filter and place in a closed posal. Take care not to raise dust. prevent environmental pollution. |
| d Storage |
| 1 5101 age |
| ith skin and eyes. Wash thoroughly after handling. ry place in a tightly sealed container. Store away from . Store apart from materials and conditions listed in |
| cco or food in work area. Wash thoroughly before ing. Do not blow dust off clothing or skin with |
| |
| nt ventilation to maintain concentration at or below |
| Personal Protection |
| ong-term value |
| , inhalable fraction, long-term value |
| ng chemical fume hood designed for hazardous aving an average face velocity of at least 100 feet per |
| |
| |
| |
| goggles clothing. Wear close-toed shoes and long |
| |

9. Physical and Chemical Characteristics Color Light green Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 230 °C Flash Point: N/A **Autoignition Temperature:** N/A 4.1 g/cc Density: Molecular weight: 92.70 g/mol 10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Strong acids, strong oxidizing agents **Incompatible Conditions:** None **Hazardous Decomposition Products:** Metal oxide fume, nickel/nickel oxides 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: Causes skin irritation. May cause an allergic skin reaction. Ingestion: Harmful if swallowed Harmful if inhaled. May cause allergy or asthma symptoms or Inhalation: breathing difficulties if inhaled. Chronic: May cause cancer. May damage fertility or the unborn child. Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalative. Signs & Symptoms: Material is extremely destructive to tissue of the mucous membranes

and upper respiratory tract, eyes, and skin. Cough, shortness of breath,

headache, nausea

Aggravated Medical Conditions: N/A

Median Lethal Dose: 1,515 mg/kg for rat by mouth

Carcinogen: IARC: 1 - Group 1: Carcinogenic to humans (Nickel dihydroxide)

NTP: Known to be human carcinogen (Nickel dihydroxide)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Notes: Do not allow product to reach ground water, water course or sewage

system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into

the ground.

Avoid transfer into the environment.

Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life.

Very toxic for aquatic organisms.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 9 Miscellaneous dangerous substances and articles

Packing Group: III UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. (Nickel

dihydroxide)

15. Regulatory Information

Sec 302 Extremely Hazardous:NoSec 304 Reportable Quantities:10 lbsSec 313 Toxic Chemicals:Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 08/27/2018