



# MARTRON INC. SAFETY DATA SHEET MARTRON EN902-H

## SECTION 1. IDENTIFICATION

<b>Product Name</b>	<b>MARTON EN902-H</b>
<b>Product Code</b>	<b>MFC-004581</b>
<b>Recommended Use</b>	Plating agents and metal surface treating agents Surface treatment
<b>Restrictions on Use</b>	For industrial use only.
<b>Company name of Supplier</b>	<b>Martron Inc.</b> 1394-A Walkup Ave. Monroe, NC 28110 704-289-1934
<b>Website</b>	<a href="http://www.martroninc.com">www.martroninc.com</a>
<b>Emergency Number</b>	<b>CHEMTREC 800-424-9300</b>

## SECTION 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Muta. 2	H341	Suspected of causing genetic defects.
Carc. 1A	H350i	May cause cancer by inhalation.
Repr. 1B	H360D	May damage the unborn child.
STOT RE 1	H372	Causes damage to organs through prolonged or repeated exposure.



GHS07

Skin Sens. 1	H317	May cause an allergic skin reaction.
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### Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS08

**Signal word:** Danger

#### Hazard-determining components of labelling:

Nickel(II) sulfate hexahydrate

#### Hazard Statements

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H350i	May cause cancer by inhalation.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	If exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

**Other hazards:** None known

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 10101-97-0 EINECS: 232-104-9	Nickel(II) sulfate hexahydrate Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1A, H350i; Repr. 1B, H360D; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	5-15%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4. FIRST AID MEASURES

**Description of first aid measures**

**General information:** Seek immediate medical advice.

**After inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.

**After eye contact:** Rinse opened eye for at least 15 minutes under running water. If easy to do so, remove contact lenses if worn. If eye irritation occurs, consult a doctor.

**After swallowing:** Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately.

**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

**SECTION 5. FIREFIGHTING MEASURES****Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, dry chemical, water mist or alcohol resistant foam.

**Special hazards arising from the substance or mixture:** No further relevant information available.

**Advice for firefighters**

**Protective equipment:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear to prevent contact with skin and eyes.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers, surface or ground water.

**Methods and material for containment and cleaning up:** Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated materials as waste according to item 13.

**Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

**SECTION 7. HANDLING and STORAGE**

**Precautions for safe handling** Wear protective equipment. Avoid contact with skin, eyes and clothing. Ensure good ventilation/exhaustion at the workplace.

**Information about fire and explosion protection:** Keep respiratory protective device available.

**Conditions for safe storage, including any incompatibilities****Storage:**

**Requirements to be met by storerooms and receptacles:** Store in a cool, dry place in tightly closed receptacles. Store away from direct sunlight. Maintain air gap between stacks/pallets.

**Information about storage in one common storage facility:** See Section 10 (Incompatible materials)

**Further information about storage conditions:** None.

**Specific end use(s)** No further relevant information available.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Additional information about design of technical facilities:** No further data; see item 7.

**Control parameters**

**Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.  
8.2 Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately.

**Respiratory protection:** Suitable respiratory protective device recommended.

**Protection of hands:** Protective gloves. The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation.

**Material of gloves:** Not applicable. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:** The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing

**Environmental exposure controls** Keep away from drains, surface, and ground waters. Avoid release into the environment.

## SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid
<b>Color</b>	Green
<b>Odor</b>	Odorless.
<b>Odor Threshold</b>	No data available
<b>pH</b>	5.0 ± 0.5
<b>Melting Point/Freezing Point</b>	Not determined
<b>Initial Boiling Point/Boiling Range</b>	≈105 °C
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper Explosion Limits</b>	≤27 Vol %
<b>Lower Explosion Limits</b>	≥16 Vol %
<b>Vapor Pressure</b>	≤23 hPa
<b>Relative Vapor Density</b>	No data available
<b>Density</b>	1.2 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	
<b>Water Solubility</b>	Completely miscible
<b>Partition Coefficient</b>	
<b>n-octanol/water</b>	No data available
<b>Auto-Ignition Temperature</b>	No data available
<b>Thermal Decomposition</b>	No data available
<b>Viscosity</b>	
<b>Viscosity, Dynamic</b>	No data available
<b>Viscosity, Kinematic</b>	No data available
<b>Oxidizing Properties</b>	Not applicable

## SECTION 10: STABILITY and REACTIVITY

**Reactivity:** No further relevant information available.

**Chemical stability:** Stable under normal conditions.

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification: 10101-97-0 Nickel(II) sulfate hexahydrate		
Oral	LD50	361 mg/kg (Rat)
Inhalation	LC50/4 h	2.48 mg/l (Rat)

### Primary irritant effect:

**Skin corrosion/irritation** May cause an allergic skin reaction.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

### Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

#### Germ cell mutagenicity

Suspected of causing genetic defects.

#### Carcinogenicity

May cause cancer by inhalation.

#### Reproductive toxicity

May damage the unborn child.

#### STOT (Specific target organ toxicity)-single exposure

Based on available data, the classification criteria are not met.

#### STOT (Specific target organ toxicity)-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12. ECOLOGICAL INFORMATION

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

### Ecotoxicological effects:

**Remark:** Toxic for fish

### Additional ecological information:

**General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system. Observe all regulations when disposing of this material.

### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

<b>SECTION 14. TRANSPORT INFORMATION</b>
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<b>UN-Number</b>	
<b>ADR/ADN, ADN, IMDG, IATA</b>	Non-Regulated Material
<b>UN proper shipping name</b>	
<b>ADR/ADN, ADN, IMDG, IATA</b>	Non-Regulated Material
<b>Transport hazard class(es)</b>	
<b>ADR/ADN, ADN, IMDG, IATA</b>	
<b>Class</b>	Non-Regulated Material
<b>Packing group</b>	
<b>ADR/ADN, IMDG, IATA</b>	Non-Regulated Material
<b>Environmental hazards:</b>	Not applicable.
<b>Special precautions for user</b>	Not applicable.
<b>Stowage Category</b>	A
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	Non-Regulated Material

<b>SECTION 15. REGULATORY INFORMATION</b>
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**US federal regulations:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard – Yes
	Delayed Hazard – Yes
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard – No

**SARA 302 Extremely hazardous substance:**

Not listed.

**SARA 311/312 Hazardous chemical:**

No

**SARA 313 (TRI reporting):**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

Not regulated.

**Safe Drinking Water Act:**

Not regulated.

**(SDWA)****US state regulations**

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100):**Sodium Hypophosphite (CAS 10039-56-2)

**US. Massachusetts RTK - Substance List:**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act:**

NICKEL SULFATE (CAS 10101-97-0)

**US. Pennsylvania Worker and Community Right-to-Know Law:**

Not listed.

**US. Rhode Island RTK:**

Not regulated.

**US. California Proposition 65:**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material contains a chemical currently listed as carcinogenic or a reproductive toxin..

**International Inventories**

Country(s) or region	Inventory name	On inventory(yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Country(s) or region	Inventory name	On inventory(yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises danger uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio accumulative and Toxic

vPvB: very Persistent and very Bio accumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Resp. Sens. 1: Respiratory sensitization – Category 1

Skin Sens. 1: Skin sensitization – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1A: Carcinogenicity – Category 1Ai

Repr. 1B: Reproductive toxicity – Category 1B

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

07/07/2020

The information provided in this Safety Data Sheet (SDS) 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.