



**SAFETY DATA SHEET
BRUSH PLATING PREPARATORY RinSEWATER**

1. Identification

Product identifier

Product name BRUSH PLATING PREPARATORY RinSEWATER

Product number 1116

Recommended use of the chemical and restrictions on use

Application Industrial Use

Details of the supplier of the safety data sheet

Supplier SIFCO Applied Surface Concepts
5708 E. Schaaf Road
Independence, Ohio 44131
U.S.A.
Tel.: +1 216-524-0099
Fax: +1 216-524-6331
E-Mail: info@sifcoasc.com

Emergency telephone number

Emergency telephone CHEMTREC (United States) (800) 424-9300; CHEMTREC (International) +1 703-527-3887

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319

Environmental hazards Not Classified

Label elements

Pictogram



Signal word Warning

Hazard statements H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with national regulations.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

BRUSH PLATING PREPARATORY RINSEWATER

Contains NICKEL SULPHATE, NICKEL FORMATE

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

NICKEL SULPHATE <1% CAS number: 7786-81-4 REACH registration number: 01-2119439361-44-0002 M factor (Acute) = 1 M factor (Chronic) = 1
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1A - H350i Repr. 1B - H360D STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
SODIUM HYDROXIDE <1% CAS number: 1310-73-2
Classification Skin Corr. 1A - H314 Eye Dam. 1 - H318
SULPHURIC ACID ...% <1% CAS number: 7664-93-9 REACH registration number: 01-2119458838-20-XXXX
Classification Skin Corr. 1A - H314 Eye Dam. 1 - H318

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Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Specific hazards Corrosive gases or vapors.

Advice for firefighters

Protective actions during firefighting Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate general and local exhaust ventilation.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. DO NOT touch spilled material! Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. Collect and dispose of spillage as indicated in Section 13. Wash thoroughly after dealing with a spillage.

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists. Provide adequate general and local exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

Storage class Corrosive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

NICKEL SULPHATE

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Long-term exposure limit (8-hour TWA): ACGIH 0.1 mg/m³
as Ni
A4

SODIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): OSHA 2 mg/m³

SULPHURIC ACID ...%

Long-term exposure limit (8-hour TWA): OSHA 1 mg/m³

Long-term exposure limit (8-hour TWA): ACGIH 0.2 mg/m³ thoracic fraction
A2

HYDROCHLORIC ACID ...%

Ceiling exposure limit: ACGIH 2 ppm 2.98 mg/m³

Ceiling exposure limit: OSHA 5 ppm 7 mg/m³

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A2 = Suspected Human Carcinogen.

A4 = Not Classifiable as a Human Carcinogen.

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL

Workers - Inhalation; Short term : 1 mg/m³ General population - Inhalation; Long term : 1 mg/m³

SULPHURIC ACID ...% (CAS: 7664-93-9)

DNEL

Industry - Inhalation; Short term local effects: 0.1 mg/m³ Industry - Inhalation; Long term local effects: 0.05 mg/m³

PNEC

- Fresh water; 0.0025 mg/l - Sediment; 0.002 mg/l - Marine water; 0.00025 mg/l - STP; 8.8 mg/l - Sediment (Marinewater); 0.002 mg/l

Exposure controls

Protective equipment



Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

Eye/face protection

Tight-fitting safety glasses.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is recommended that gloves are made of the following material: Nitrile rubber.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

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Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Clear Greenish.
Odor	Odorless.
pH	pH (concentrated solution): 0.5-2.0
Melting point	>0°C/32°F
Initial boiling point and range	>100°C/212°F @
Flash point	Not known.
Relative density	1.020-1.050
Other information	Not available.

10. Stability and reactivity

Reactivity	Alkalis.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Alkalis.
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
Hazardous decomposition products	None at ambient temperatures.

11. Toxicological information

Information on toxicological effects

Inhalation	Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing.
Ingestion	Causes severe burns. May cause chemical burns in mouth, esophagus and stomach.
Skin Contact	May cause serious chemical burns to the skin.
Eye contact	Causes serious eye damage. Immediate first aid is imperative.
Acute and chronic health hazards	May cause burns in mucous membranes, throat, esophagus and stomach.
Route of entry	Ingestion Inhalation Skin and/or eye contact

12. Ecological Information

Toxicity

Toxicity No data available.

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Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential The product does not contain any substances expected to be bioaccumulating.

Mobility in soil

Mobility The product is soluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects Not determined.

13. Disposal considerations

Waste treatment methods

General information Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

14. Transport information

UN Number

UN No. (DOT) 3264

UN No. (IMDG) 3264

UN No. (ICAO) 3264

UN proper shipping name

Proper shipping name (DOT) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, HYDROCHLORIC ACID)

Proper shipping name (IMDG) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, HYDROCHLORIC ACID)

Proper shipping name (ICAO) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, HYDROCHLORIC ACID)

Transport hazard class(es)

IMDG Class 8

ICAO class/division 8

Transport labels



Packing group

DOT pack group III

IMDG packing group III

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ICAO packing group III

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

EmS F-A, S-B

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Exempt.

SARA 313 Emission Reporting

Exempt.

CAA Accidental Release Prevention

Exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Nickel Formate
Nickel Sulphate

California Directors List of Hazardous Substances

Hydrochloric Acid
Nickel Sulphate
Sulphuric Acid

Inventories

US - TSCA

All ingredients are present.

16. Other information

Revision date 7/7/2015

Revision 1

BRUSH PLATING PREPARATORY Rinsewater

Hazard statements in full	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 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. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
NFPA - flammability hazard	Will not burn. (0)
NFPA - health hazard	Irritation, minor residual injury. (1)
NFPA - instability hazard	Normally stable. (0)

The information in this data sheet is believed to be correct but neither we nor our employees or agents give any warranty or make any representation to the accuracy thereof and accept no liability for any loss, injury or damage which may result in its use. The sole purpose of this data sheet is to provide guidance on the safe handling and use of the products to which it relates. It does not form part of any product specification nor part of any contract. It is not practical for the guidance and information in this data sheet to cover every conceivable application of a product and as we may not be aware of the use to which the products covered by this data sheet are to be put it remains the responsibility of the user to conduct its own tests and to satisfy itself as to the suitability of the product.