

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: May 31, 2018

SPI Catalog # 01026-AB

WENOL® Metal Polish

Section 1.1: Identification

Chemical Name/Synonyms Not known

Product or Trade Name: WENOL® Metal Polish

CAS #'s 64742-82-1, 64742-47-8, 8008-20-6, 68603-42-9, 1344-28-1, 7664-41-7

Chemical Formula..... Mixture

Section 1.2: Relevant Uses/Restrictions

To be used as a metal polish in laboratory settings.

Section 1.3: Supplier of the Safety Data Sheet

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Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

Section 2: Hazard Identification

2.1 Classification of the substance

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (category 3)

Causes serious eye damage (category 1)

Causes skin irritation (category 2)

Suspected carcinogen (category 2)
Aspiration toxicity (category 1)
STOT SE (category 3) (respiratory)
STOT RE (category 1) (damage to organs)

Hazard Symbol(s)



Signal Word: Danger

Hazard Statement(s)

H226 Flammable liquid and vapor
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H318 Causes serious eye damage
H335 May cause respiratory irritation
H372 May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

P102 Keep out of reach of children
P262 Do not get in eyes, on skin, or on clothing
P264 Wash thoroughly after handling
P270 Do not eat, drink, or smoke when using this product
P301 + P310 IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P405 Store locked up

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

2.3 Other Hazards: None known.

Hazardous Material Information System USA

Health 2
Fire Hazard 2
Reactivity 0
Personal Protection

NFPA Rating (estimated)

Health 2
Flammability 2
Reactivity 0

Section 3: Composition

3.1 Substances: N/A

3.2 Mixtures:

| Component | CAS # | EC # | Percent |
|-----------|-------|------|---------|
|-----------|-------|------|---------|

| | | | |
|------------------------|------------|-----------|-------|
| White Spirits | 64742-82-1 | 265-185-4 | 10-20 |
| | 64742-47-8 | 265-149-8 | |
| Kerosene 200-230 | 8008-20-6 | 232-366-4 | 10-20 |
| Coconut diethanolamide | 68603-42-9 | 271-657-0 | 5-15 |
| Aluminum Oxide | 1344-28-1 | 215-691-6 | 25-35 |
| Ammonia Solution (25%) | 1336-21-6 | 215-647-6 | 1-5 |
| Water | 7732-18-5 | 231-791-2 | ~35 |

Section 4: First Aid Measures

4.1 Description of first aid measures:

Inhalation: Remove to fresh air and rest until symptoms resolve. If irritation persists, seek medical advice.

Skin Contact: Wash with water and soap and rinse thoroughly.

Eye Contact: Flush eyes immediately with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Give water to drink to wash the alkaline product into stomach. Milk may be used to reduce the irritant effects of kerosene. Seek medical advice.

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

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

Section 5: Fire Fighting Measures

5.1 Extinguishing media: Any suitable medium for extinguishing the supporting fire. Use water to keep fire-exposed containers cool. For fire specifically involving this product, use dry foam, dry chemical or water spray, CO₂, sand, or earth to extinguish the fire.

5.2 Special hazards arising from the substance or mixture:

Flash point: >51.5 °C

Conditions to avoid: Organic dust particles in the atmosphere are combustible and may be explosive. Keep away from heat, sparks, flame, and all other ignition sources.

Hazardous combustion products: Combustion products may include carbon monoxide, oxides of nitrogen, oxides of sulfur and unburned hydrocarbons.

5.3 Advice for firefighters:

Special protective equipment and precautions for firefighters: Select protective equipment on the basis of the supporting fire. Wear a NIOSH approved or equivalent positive pressure self-contained breathing apparatus and fire-fighter turnout gear if surrounding fire requires it. Use flooding quantities of water until well after the fire is out.

Section 6: Accidental Release Measures

6.1 Personal precautions:

Wear protective gloves and glasses.

6.2 Environmental precautions:

Do not allow product to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up with dry cloth and retain for recycle or disposal for spills involving up to 5 liters. Do not flush spilled material to the sewer or the environment.

6.4 Reference to other sections:

See Section 8 for Exposure Controls and Personal Protection.

See Section 13 for disposal information.

Section 7: Handling and Storage

7.1 Precautions for safe handling:**Protective measures:**

Use in well ventilated area.

Wear suitable gloves if prolonged exposure is contemplated.

Advice on general hygiene conditions:

Wash thoroughly with soap and water after use.

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

Store away from excessive heat.

Store away from strong oxidizing agents.

Keep containers tightly closed to prevent evaporation of liquid components.

Store in a cool, dry, frost-free place.

Keep out of the reach of children.

7.3 Specific end uses:

Used as a metal polish in a laboratory setting.

This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameter and Personal Protection:**Workplace exposure limits:**

Components with exposure limits:

Kerosene (petroleum) CAS# 8008-20-6

REL: Long-term value: 100 mg/m³

TLV Long-term value: 200 mg/m³ (as total hydrocarbon vapor; Skin; P)

Ammonia (anhydrous) CAS # 7664-41-7

PEL Long-term value: 35 mg/m³, 50 ppm

REL Short-term value: 27 mg/m³, 35 ppm

Long-term value: 18 mg/m³, 25 ppm

TLV Short-term value: 24 mg/m³, 35 ppm

Long-term value: 17 mg/m³, 25 ppm

White spirits CAS # 64742-81-1; 64742-47-8

OEL 600 mg/m³ (8 hour Time Weighted Average)*

*Source: UK Document EH40 Occupational Exposure Limits UK)

Biological limit values: No additional information available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Provide adequate ventilation.
Avoid contact with skin and eyes.
Wash thoroughly after use and at the end of work.

8.2.2 Individual protection measures:

The product does not present a significant hazard in normal use.
If prolonged contact is anticipated, the PVC or rubber gloves and chemical resistant goggles should be used.
Respiratory protection not necessary under normal working conditions.

8.2.3 Environmental exposure controls:

Do not allow product to reach sewage system or any water course.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance: Pink (slightly red) paste

Odor: Slight ammonia

Odor threshold: Not available

pH: 9.5-11.5

Melting point/Freezing point: Not known

Boiling point/Boiling point range: 221 °C

Flash Point: >51.5 °C

Evaporation rate: Not known

Flammability (solid, gas): Not flammable

Upper/lower flammability or explosive limits:

Lower: 0.5 Vol %

Upper: 6.5 Vol %

Vapor Pressure: Not available

Vapor density: Not available

Relative density: Not available

Specific gravity: Solid/Liquid 1.150 g/ml (water = 1)

Solubility/Miscibility with water: Dispersible and miscible

Partition coefficient (n-octanol/water): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: 60,000-90,000 cps (20 °C). More than 7×10^{-6} m²/second (40 °C)

Explosive properties: Product is not explosive. Formation of explosive air/vapor mixtures is possible.

Oxidizing Properties: Not applicable

9.2 Other information: No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity: Does not react with air, water, or other common materials.

10.2 Chemical Stability: This product is stable.

10.3 Possibility of Hazardous Reactions:

10.4 Conditions to avoid: Excessive heat, Strong oxidizing agents.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: Not known.

Section 11: Toxicological Information

Information on the likely routes of exposure:

11.1 Information on toxicological effects:

A. Acute toxicity

| | | | |
|--------------------------|----------|-----|-----------|
| Component: Ammonia (25%) | 1-5% | | |
| Oral | LD50 | rat | 350 mg/kg |
| Inhalation | LC50/4 h | rat | 2000 mg/l |

B. Skin corrosion/irritation

Irritant to skin and mucous membranes (ammonia)

C. Serious eye damage/irritation

Strong irritant with the danger of severe eye injury (ammonia)

D. Respiratory or skin sensitization

No sensitizing effects known

E. Germ cell mutagenicity

No information available

F. Carcinogenicity

IARC: CAS# 8008-20-6 (Kerosene) is classified as a Group 2B carcinogen.
CAS# 68603-42-9 (Coconut diethanolamide) is classified as a Group 2B carcinogen.

NTP: None of the ingredients is listed.

OSHA-Ca: CAS# 68603-42-9 is listed in California Prop. 65 as known carcinogen.

G. Reproductive toxicity

No information available

H. STOT-single exposure

Respiratory – category 3

I.. STOT-repeated exposure

Organ damage – category 1

J. Aspiration hazard

No information available

Section 12: Ecological Information

12.1 Toxicity:

This product contains 10-20% of white spirit which is highly volatile and will rapidly evaporate to the air if released into the environment.

Toxic for fish.

12.2 Persistence and degradability:

White spirit is expected to bio-degrade rapidly and be “readily” bio-degradable according to OECD guidelines. It can degrade rapidly in air and is expected to be removed in a waste water treatment facility.

Based upon data for similar materials, white spirit is classified as R51/53 toxic to aquatic organisms, may cause long-term adverse in the aquatic environment. Although data show that white spirit is not expected to persist in the aquatic environment, European Classification rules require that it be classified as potential hazard causing long-term adverse effects in the aquatic environment.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

12.3 Bio-accumulative potential:

White spirit is expected to bio-degrade rapidly and be “readily” bio-degradable according to OECD guidelines.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

No data available.

12.6 Other adverse effects:

No further relevant data available.

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Disposal should be made in accordance with all applicable regional, national and local laws and regulations.

Do not allow product to reach sewage system.

Do not dispose of together with household garbage.

Section 14: Transport Information

DOT: Not regulated for transport.

IATA: Not regulated for transport.

IMDG: Not regulated for transport.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture:

U.S. Government Regulations:

TSCA: All components of this product are listed on the TSCA 8(b) inventory.

SARA Section 311/312:

CAS # 68603-42-9 (Coconut diethanolamide) is listed as a Fire Hazard.

SARA Section 313 (Specific toxic chemical listings):

Specific components listed under Section 313:

| | |
|-----------------|--------------------|
| CAS# 1344-28-1 | Aluminum oxide |
| CAS # 7664-41-7 | Ammonia, anhydrous |

SARA Section 355 (extremely hazardous substances):

| | |
|-----------------|--------------------|
| CAS # 7664-41-7 | Ammonia, anhydrous |
|-----------------|--------------------|

CERCLA hazardous substances and their reportable quantities:

None

California Prop. 65:

CAS # 68603-42-9 (Coconut diethanolamide) is known to the State of California Proposition 65 to cause cancer.

15.2 Chemical Safety Assessment: Has not been completed.

Date of Preparation: 31 May 2018.

Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

CMRG: Chemical Manufacturer's Recommended Guidelines

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulative and Toxicological

vPvB: very Persistent and very Bio-accumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety Health

ATE: Acute Toxicity Estimates

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

STEL: Short Term Exposure Limit

CEIL: Ceiling

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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