

# SAFETY DATA SHEET

# METAL COATING

Last updated February 2018

## Product Identification

Product Name: NanoTech Metal Coating

|           |   |           |   |
|-----------|---|-----------|---|
| NFPA Est. |   | HMIS Est. |   |
| Health:   | 2 | Health:   | 2 |
| Fire:     | 2 | Fire:     | 2 |
| React:    | 1 | React:    | 1 |

## Composition

| Ingredient       | Concentration | C.A.S. Number | ACGIH TLV |
|------------------|---------------|---------------|-----------|
| Trade Secret A-1 | 10-12         | Proprietary   | 1000 ppm  |
| Trade Secret A-2 | 6-8           | Proprietary   | --        |
| Ethyl Alcohol    | 6-8           | 64-17-5       | 1000 ppm  |
| Butyl Acetate    | 54-56         | 540-88-5      | 200 ppm   |
| Trade Secret B   | 16-18         | Proprietary   | --        |

## Chemical and Physical Properties

|                             |               |                          |                                |
|-----------------------------|---------------|--------------------------|--------------------------------|
| <b>Vapor pressure:</b>      | 9 hPa @ 20° C | <b>Vapor Density:</b>    | Heavier than air               |
| <b>Solubility in Water:</b> | Insoluble     | <b>Specific Gravity:</b> | 1.02                           |
| <b>Boiling Point:</b>       | >90° C        | <b>Appearance:</b>       | clear to slightly milky liquid |
| <b>Odor:</b>                | Mild fruity   | <b>V.O.C.</b>            | 95 gm/liter                    |

## Flammability and Explosive Properties

**Flash Point:** closed cup: 16.7° C (62.1° F)  
**Recommended Extinguishing Agents:** Use water spray, foam, dry chemical or CO2  
**Hazardous Products Formed by Fire or Thermal Decomposition:** Hazardous fumes (ethanol, phenolics, oxides of carbon and nitrogen)  
**Unusual Fire or Explosion Hazards:** Flammable  
**Compressed Gasses:** None  
**Pressure at Room Temp:** N.A.

## Reactivity Data

**Stability:** Stable  
**Hazardous Polymerization:** May occur  
**Hazardous Decomp. Prod.:** Ethanol  
**Incompatibility:** Oxidizers, alkalis, acids, aliphatic amines, water



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## Spill or Leak Procedures

Dike area to prevent spreading. Absorb on vermiculite, sand or other inert absorbing material. Dispose of as a chemical waste in accordance with current local, state and federal regulations.

## Storage and Handling Procedures

**Storage:** Avoid storage over 100° F, contamination with incompatible materials. Keep containers tightly closed in a cool, well ventilated place. Protect from moisture. Residual vapors might explode on ignition. Do not apply heat, cut, drill, grind or weld on or near this container.

**Handling:** Provide good ventilation or extraction. Avoid prolonged or repeated breathing of vapor. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks, flames and other sources of ignition. Wash thoroughly after handling.

## Shipping Regulations

**DOT and IATA Hazard Classification:** Class 3 Flammable Liquid

**Proper DOT Shipping Name:** Coatings Solution

**Identification Number:** DOT - UN 1139 IATA - UN 1139

**Transportation:** Title 14

## Emergency Treatment Procedures

**Eye Irritation:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and shoes. Do not use organic solvents for cleanup as they may dry or irritate the skin and act as a carrier for chemical absorption.

**Inhalation:** If aerosol or mists are formed, remove affected person to fresh air. Possible discomfort includes irritation of mucous lining (nose, throat, eyes), cough, sneezing and flow of tears. Call a physician immediately if breathing difficulties occur: keep patient half sitting with upper body raised.

**Ingestion:** If accidentally swallowed, rinse mouth thoroughly with water and, afterwards, drink plenty of water. In case of discomfort, obtain medical attention. Notes to physician if substance has been swallowed: early endoscopy in order to assess mucosa lesions in the esophagus and stomach which may appear. If necessary, aspirate leftover substance.

## Personal Protection

**Respiratory:** Positive fresh air exhaust should be provided in the work area. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use.

**Skin:** Avoid skin contact. Wear butyl-rubber gloves and impervious protective clothing.

**Eyes:** Do not wear contact lenses. Chemical safety goggles or splash shields are recommended.

## Health Hazard Data

**Potential Routes of Entry:** Skin, eyes, inhalation.

**Symptoms of Overexposure:** Possible skin and eye irritation on contact. Inhalation of vapors in an unventilated area may, over time, induce headaches or dizziness.

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## Exposure Limits

| Ingredient       | ACGIH (TLV) | OSHA (PEL) | OTHER |
|------------------|-------------|------------|-------|
| Trade Secret A-2 | 10 ppm      | 100 ppm    | --    |
| Ethyl Alcohol    | 1000 ppm    | 1000 ppm   | --    |
| Butyl Acetate    | 200 ppm     | 1000 ppm   |       |

|                  | Target Organs        | Carcinogen | NTP | IARC |
|------------------|----------------------|------------|-----|------|
| Trade Secret A-1 | IRR, LIV, KID        | NO         | NO  | NO   |
| Trade Secret A-2 | IRR, LIV, KID        | NO         | NO  | NO   |
| Ethyl Alcohol    | HEART, IRR, LIV, KID | NO         | NO  | NO   |
| Butyl Acetate    | HEART, IRR, LIV, KID | NO         | NO  | NO   |
| Trade Secret B   | NONE                 | NO         | NO  | NO   |

### Abbreviations:

N/A: Not Applicable    ALG: Allergen  
 IRR: Irritant            KID: Kidney  
 LIV: Liver                REP: Reproductive

## Regulatory Information

**Sara Listed Ingredients:** Trade Secret A-1, Trade Secret A-2, Trade Secret B

**TSCA Inventory:** Ethyl Alcohol, Methyl Acetate

### STATE RIGHT-TO-KNOW CALIFORNIA Proposition 65

This product does not contain materials which the State of California has found to cause cancer, birth defects, or other reproductive harm.

### OTHER REGULATORY INFORMATION:

\*\* NONE \*\*

### ABBREVIATIONS:

ACGIH      American Conference of Governmental Industrial Hygienists  
 OSHA      Occupational Safety and Health Administration  
 TLV        Threshold Limit Value  
 PEL        Permissible Exposure Limit  
 NTP        National Testing Program  
 IARC       International Agency for Research on Cancer  
 NFPA      National Fire Protection Association  
 HMIS      Hazardous Materials Identification System  
 --         No Data / Not Available  
 N.A.       Not Applicable



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## IMPORTANT LIABILITY DISCLAIMER

The information contained in this Material Safety Data Sheet (MSDS) is believed to be correct as it was obtained from sources we believe are reliable. However, no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material, or the results to be obtained from the use thereof. User assumes all risks and liability of any use, processing or handling of any material, variations in methods, conditions and equipment used to store, handle or process the material and hazards connected with the use of the material are solely the responsibility of the user and remain at his sole discretion. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe work place, to examine all aspects of its operation and to determine if or where precautions, in addition to those described herein, are required.