



**TRIANGLE FASTENER CORPORATION**

1925 Preble Ave | Pittsburgh, PA | 15233  
P: 412.321.5000 | F 412.321.7838 | [www.trianglefastener.com](http://www.trianglefastener.com)

*SAFETY DATA SHEET*

Report #: 060915SDS

Date: 06.09.15

Product: TRI-SEAL Coated Screws

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**SDS | TRI-SEAL Ceramic Topcoat**

Material Safety Data Sheet | US Department of Labor

May be used to comply with Occupational Safety and Health Administration

OSHA's Hazard Communication Standard

29 CFR 1910.1200 Standard must be consulted  
for specific requirements

Form Approved

OMB No. 1218-0072

IDENTITY (AS Used on Label and List)

**TRI-SEAL COATING**

**Section I**

Manufacturer's Name: Taiwan Inn Ruspert Co.,  
Ltd

Emergency telephone number:  
886-7-6973115

(Nikon Ruspert Co., Ltd.)

Telephone

Address (number, Street, City, State and Zip  
code)

Number for  
information: 886-7-6973115

300-1 Fu Shi Rd., Lu Chu Hsiang Kaohsiung

Hisan, Taiwan, R.O.C

Taiwan

Japan-----81-724328711



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**Section II- Hazardous Ingredients/ Identity information**

Signature of preparer (Optional)

Hazardous Components ( Specific Chemical Identity:)

<u>Common Name(s)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% (optional)</u>
Chemical analysis, unit; %			
RESIN (POLYESTER, MELAMINE, EPOXY SILICONE)			
FILLER	ETHER SOLVENT		
PIGMENT	ETHER SOLVENT		
ALUMINUM POWER	ALCOHOLIC SOLVENT		
XYLENE	ADDITIVE		
BUTYL CELLOSOLVE			
BUTANOL			
AROMATIC HYDROCARBON SOLVENT			

**Section III-Physical/Chemical**

Specific Gravity

**Characteristics**

(H20-1) 1.56+0.01

Boiling Point 137-140°C

Melting Point 1000 degree c

Vapor pressure (mm Hg) 6-6.5@20 C

Evaporation 3.7

Vapor Density (AIR-1): 0.86

Medicament no volatilize

Solubility in water: dissolution 100% 130 mg/l



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Appearance and Odor: W/O color, liquid                      Odor

**Section IV-Fire and explosion Hazard Date**

**Flammable Limits**

**LEL**

Flash Point (method used): nonflammable

product is  
not self  
igniting            NONE

Extinguishing media: not applicable

Special Fire Fighting Procedures

none

Unusual Fire and Explosion Hazards

none

(Reproduce locally)

**Section V**

**Reactivity Data**

Stability    Unstable

Conditions to avoid

Stable                      v

No decomposition

Incompatibility ( Materials to avoid)

If used according to spec

Hazardous Decomposition or byproducts

Hazardous    May Occur

Conditions  
to avoid

Polymerization                                      Will not Occur            v

**Section VI**

**Health Hazard Data**

Route(s) of entry                                      Inhalation? (none)

Skin?  
YES

Health Hazards (Acute and Chronic)

Ingestion?  
YES



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Not flammable or combustible. Steel products (screw) in the solid state present no fire or explosion hazards and do not contribute to the combustion of other materials

Carcinogenicity: none

IARC  
Monographs?

Signs and Symptoms of Exposure none

DSHA  
Regulated?

Medical Conditions

Generally Aggravated by Exposure none

Emergency First Aid Procedures

Skin Contact Immediately flush skin with water for at least 15 minutes, if no relief, seek medical treatment

Ingestion Do not force vomiting, rinse mouth with water, give patient water  
If patient is nauseated, immediately drink water, if no relief, seek medical treatment

**Section VII**

**Precautions for Safe Handling and Use**

Steps to be taken in case material is Released or spilled centralize disposal

Waste Disposal Method: Dispose of the substance in accordance with that related laws and regulations

Precautions to be taken in Handling and Storing

Wash your hands after handling. Avoid storing the substance at a high temperature or in a highly humid place. Don't put screws in your mouth

Other precautions



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Temperatures above the melting point may liberate fumes oxide of zinc and alloying elements

**Section VIII**

**Control Measures**

Respiratory Protection (specify type)

Ventilation

Local Exhaust

none            special

mechanical (general)            none

none            other

protective gloves

eye protection            none

rubber gloves

safety glasses

Other protective clothing or equipment

install a washstand in workshop for washing hands

Work/Hygienic Practices