



TRIANGLE FASTENER CORPORATION

Cleveland, OH 44109

P: 216.351.9933 F: 216.351.5008

www.trianglefastener.com

FASTENING SYSTEMS DESIGN AND ENGINEERING CENTER

MATERIAL SAFETY DATA SHEET

Report No.: MSDS080310

Date: August 3, 2010

MSDS TRI-SEAL Ceramic Topcoat

US Department of Labor

May be used to comply with Occupational Safety and Health Administration.

OSHA's Hazard Communication Standard

(Non-Mandatory Form)

29 CFR 1910.1200 Standard must be

Form Approved

consulted for specific requirements

OMB No. 1218-0072

IDENTITY (AS Used on Label and List)

if any item is not

applicable or no

RUSPERT COATING

information is available,

the spaces

must be marked to indicate that

Section I

Manufacturer's Name:

Taiwan Inn Ruspert Co., Ltd.

(Nikon Ruspert Co., Ltd.)

300-1 Fu Shi Rd.

Lu Chu Hsiang Kaohsiung

Hisan, Taiwan, R.O.C

Phone No.: 886-7-6973115

Emergency telephone number: 886-7-6973115

DISCLAIMER: THIS INFORMATION IS FOR GENERAL INFORMATION ONLY AND CANNOT BE CONSTRUED AS A SUBSTITUTE FOR COMPETENT PROFESSIONAL ADVISE OR SERVICE. ANY PARTY CONSIDERING APPLICATION OR USE DOES SO AT THEIR OWN RISK AND ASSUMES ANY AND ALL RESULTING LIABILITY FROM THIS APPLICATION OR USE.



Section II – Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity:)

Common Name(s)	OSHA PEL	ACGIHTLV	% (Optional)
RESIN (POLYESTER, MELAMINE, EPOXY SILICONE) FILLER PIGMENT		ETHER SOLVENT ETHER SOLVENT ALCOHOLIC SOLVENT	
ALUMINUM POWER XYLENE BUTYL CELLOSOLVE BUTANOL AROMATIV HYDROCARBON SOLVENT		ADDITIVE	

Section III – Physical / Chemical Characteristics

Specific Gravity (H2O-1)	1.56+0.01		
Boiling Point 137-140°C	Melting Point	1000 Degrees C	
Vapor Pressure (mm Hg) 6-6.5@20	Evaporation	3.7	
Vapor Density (AIR-1): 0.86			
Medicament no volatilize			
Solubility in watr: dissolution 100% 130 mg/l			
Appearance and Odor: W/o color, Liquid			

Section IV – Fire and Explosion Hazard Date

Flammable Limits, LEL NONE (Product is not self igniting)
Flash Pont (method used): Nonflammable
Extinguishing Media: Not Applicable
Special Fire Fighting Procedures: None
(Reproduce locally)



Section V – Reactivity Data

Stability	Unstable	Conditions to avoid
	Stable	No decomposition if used according to spec
Incompatibility (Materials to avoid)		
Hazardous Decomposition or byproducts		
Hazardous	May Occur	Conditions to avoid
Polymerization	Will not Occur	

Section VI – Health Hazard Data

Route(s) of entry	Inhalation? (None)	Skin? (Yes)
Health Hazards (Acute and Chronic)	Ingestion? (Yes)	
Not flammable of 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	NTP? (None)	IARC Monographs? DSHA Regulated?
Signs & symptoms of exposure	None	
Medical Conditions		
Generally aggravated by exposure	None	
Emergency first aid procedures		
Skin contact	Immediately flush skin with water for at least 15 minutes, if not relief, seek medical treatment.	
Ingestion	So not force vomiting, rinse mouth with water, give patient water.	



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

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 (None)
	Mechanical (General)	Other (None)

Protective Gloves Rubber Gloves

Eye Protection Safety Glasses

Other protective clothing or equipment

Install a washstand in workshop for washing hands

Work/Hygienic practices