

SAFETY DATA SHEET

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Version 3.0; SDS NO.: 271  
 Revision Date: 04/30/2014

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION  
 AND OF THE COMPANY/UNDERTAKING**

**1.1 PRODUCT IDENTIFIER:**

PRODUCT NAME: Hyprez® Five Star® Diamond Compound  
 FORMULATION: C4548  
 CHEMICAL FAMILY: Vegetable Oil/Surfactant/Polyglycol/Silica Mixture

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:**

Relevant identified uses: Industrial polishing  
 Uses advised against: No data available

**1.3 DETAILS OF SUPPLIER OF SAFETY DATA SHEET:**

Supplier: Engis Corporation Phone: (847) 808-9400  
 105 W. Hintz Road Fax: (847) 808-9430  
 Wheeling, IL 60090 USA

**1.4 EMERGENCY TELEPHONE NUMBER: 1-800-424-9300 (CHEMTREC)**

**SECTION 2. HAZARDS IDENTIFICATION**

**2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:**

<b>GHS Classification</b>	<b>Hazard Class</b>	<b>Category</b>
Health Hazards:	Serious Eye Damage Skin Irritation Specific Target Organ Toxicity – Repeated Exposure	Category 1 (H318) Category 2 (H315) Category 2 (H373a)
Environment:	Aquatic Toxicity – Acute	Category 1 (H400)
Physical/Chemical Hazard:	Not applicable.	
Fire and Explosion Hazard:	Not applicable.	

**2.2 LABEL ELEMENTS:**

Pictogram or Symbol: 

Signal Word: **Danger**

Hazard Risk Statement(s):

- H318 Causes serious eye damage
- H315 Causes skin irritation
- H373a May cause damage to organs through prolonged or repeated exposure
- H400 Very toxic to aquatic life

Precautionary Statement(s):

- P273 Avoid release to the environment
- P264 Wash skin thoroughly after handling
- P280 Wear protective gloves/eye protection/face protection and protective clothing.
- P260 Do not breathe dust, fumes, vapors, mists or spray
- P310 Immediately call a POISON CENTER or doctor/physician.
- P362 Take off contaminated clothing and wash before reuse.
- P501 Dispose of contents & container according to local regulations

**2.3 OTHER HAZARDS:** N/A

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 SUBSTANCES:** N/A

**3.2 MIXTURES:**

Vegetable Oil/Polyglycol/Silica Mixture

CAS No.	Name	Wt %	Classification according to GHS
7782-40-3	Diamond	1 – 30%	None
112945-52-5	Amorphous fumed silica	0 - 10%	None
124-30-1	n-Octadecylamine	5 – 15%	Eye Dam. – Cat. 1 (H318) Skin Irr. – Cat. 2 (H315) STOT RE – Cat. 2 (H373a) Aquatic Acute – Cat. 1 (H400)
9004-98-2	Polyoxyethylene monooleyether	0 – 5%	Eye Dam. Cat. 1 (H318)
39464-70-5	Poly(oxy-1,2-ethanediyl), alpha-phenyl-, omega-hydroxy-, phosphate	0 – 5%	Eye Dam.- Cat. 1 (H318) Skin Irr. – Cat. 2 (H315)
	Triglyceride of fatty acid	40 – 60%	None
128-37-0	2,6-Di-tert-butyl-4-methylphenol (BHT)	< 1%	Aquatic Acute – Cat.1 (H400) Aquatic Chronic – Cat.1 (H410)

For the full text of the H-Statements listed in Composition section 3.2 see Section 16

**3.3 ADDITIONAL INFORMATION:**

See Section 8 for Workplace Exposure Limits (WEL)

SECTION 4. FIRST AID MEASURES

**4.1 DESCRIPTION OF FIRST AID MEASURES:**

Skin Contact: Wash thoroughly with soap and water.  
Eyes: Flush thoroughly with water until irritation subsides, lifting upper and lower lids to facilitate cleansing. If irritation persists, seek medical assistance.  
Inhalation: Not applicable  
Ingestion: If large amounts of this material are swallowed, do not induce vomiting. Keep person at rest and seek immediate medical attention.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

Prolonged and repeated exposure may cause skin and eye irritation

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**

No data available

SECTION 5. FIRE FIGHTING MEASURES

**5.1 EXTINGUISHING MEDIA:**

Use water spray to cool surfaces exposed to fire to disperse vapors and to protect personnel attempting to stop any leakage. Extinguish the fire with foam, dry chemical or carbon dioxide.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, various oxides of carbon.

**5.3 ADVICE FOR FIRE-FIGHTERS:**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 ADDITIONAL INFORMATION:**

No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

Use personal protective equipment.

**6.2 ENVIRONMENTAL PRECAUTIONS:**

Release to the environment is unlikely. Do not dispose of waste materials in drains.

**6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN-UP:**

Clean up excess or waste material and dispose properly according to local and national laws.

**6.4 REFERENCE TO OTHER SECTIONS:**

None

SECTION 7. HANDLING & STORAGE

**7.1 PRECAUTIONS FOR SAFE HANDLING:**

Electrostatic Accumulation Hazard: Not applicable. Store in closed container away from incompatible materials.

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Storage Temperature: Ambient. Avoid storing at temperatures exceeding 120°F. Avoid storage in sunlight.  
Transport Temperature: Ambient  
Storage Pressure: Atmospheric

Materials/Coatings Compatibility: Glass, carbon steel, stainless steel, polyethylene, polypropylene, polyester

Materials/Coatings Unsuitable: Strong oxidizing agents (acids), strong alkalis. Testing for compatibility with specific plastic materials is recommended.

**7.3 SPECIFIC END USES:** No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 CONTROL PARAMETERS:**

Workplace Exposure Limit (WEL): For amorphous Silica component:

U.S.A.	TLV=10 mg/m <sup>3</sup> (as total dust particles) PEL=not applicable
Germany	MAK=4 mg/m <sup>3</sup> (as total dust particles)
U.K. (EH 40)	WEL=6 mg/m <sup>3</sup> (as total inhalable dust) long term exposure =2.4 mg/m <sup>3</sup> (as total respirable dust) long term exposure

For 2,6-Di-tert-butyl-4-methylphenol (BHT) component:  
U.K. (EH40) WEL = 10 mg/m<sup>3</sup> long term exposure

DNEL Values: No data available  
PNEC Values : No data available

**8.2 EXPOSURE CONTROLS:**

Wear Personal Protective Equipment as necessary:

Hand Protection: Gloves  
Eye Protection: Safety Glasses  
Skin and Body Protection: Protective Clothing  
Respiratory Protection: No protection is ordinarily required under normal conditions of use and with adequate ventilation. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid paste	EXPLOSIVE LIMITS:	Not determined
COLOR:	Various colors	VAPOR PRESSURE:	Not determined
ODOR:	Odorless	VAPOR DENSITY:	Not applicable
ODOR THRESHOLD:	Not determined	SPECIFIC GRAVITY:	~ 1.0 gm/cc
pH:	Not determined	SOLUBILITY IN WATER:	Insoluble
MELT/FREEZE POINT:	167°F (75°C)	PARTITION COEFFICIENT:	Not determined
BOILING RANGE:	>400°F (>204°C)	AUTO IGNITION TEMP:	Not determined
FLASHPOINT:	>250°F (>121°C)	DECOMPOSITION TEMP:	Not determined
EVAPORATION RATE:	Not determined	VISCOSITY:	Not determined
PERCENT VOLATILE:	Not determined	EXPLOSIVE PROPERTIES:	Not determined
OXIDIZING PROPERTIES:	Not determined	FLAMMABILITY:	Not determined

9.2 OTHER SAFETY INFORMATION: No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 REACTIVITY:	No data available
10.2 CHEMICAL STABILITY:	Stable at normal temperatures and pressure
10.3 POSSIBILITY OF HAZARDOUS REACTION:	Not reactive at normal temperatures and pressures
10.4 CONDITIONS TO AVOID:	Storage temperatures above melting temperature
10.5 INCOMPATIBLE MATERIALS:	No data available
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	None with proper storage and handling

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity:	No data available
Irritation:	No data available
Corrosivity:	No data available
Sensitization:	No data available
Repeated dose toxicity:	No data available
Carcinogenicity:	No ingredient of this product is listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration (USA).
Mutagenicity:	No data available
Toxicity for reproduction:	No data available
Risk of aspiration toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

**CMR ASSESSMENT:**

Target Organ Effects: No data available  
Development Information: No data available  
Cancer Information: No data available

**11.2 OTHER INFORMATION:** No data available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: May be harmful to aquatic organism  
12.2 Persistence and degradability: No data available  
12.3 Bioaccumulative potential: No data available  
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 data available

SECTION 13. DISPOSAL CONSIDERATIONS

**13.1 WASTE TREATMENT METHODS**

Product/Packaging: Waste product and packaging must be disposed of via an authorized waste disposal company in accordance with Local and National Waste Disposal Regulations. This product is not suitable for disposal by landfill, municipal sewers, drains, natural streams or rivers. Care should be taken to ensure compliance with National and Local Regulations for disposal.

SECTION 14. TRANSPORT INFORMATION

**14.1 UN NUMBER:**

ADR/RID: - UN3077                      IMDG: - UN3077                      IATA: - UN3077

**14.2 UN PROPER SHIPPING NAME:**

ADR/RID: Environmentally hazardous substance, solid, n.o.s.

IMDG: Environmentally hazardous substance, solid, n.o.s.

IATA: Environmentally hazardous substance, solid, n.o.s.

**14.3 TRANSPORT HAZARD CLASS(ES):**

ADR/RID: - 9                                      IMDG: - 9                                      IATA: - 9

**14.4 PACKAGING GROUP:**

ADR/RID: - III                                      IMDG: - III                                      IATA: - III

**14.5 ENVIRONMENTAL HAZARDS:**

ADR/RID: yes                                      IMDG Marine pollutant: yes                      IATA: yes

**14.6 SPECIAL PRECAUTIONS FOR USER:** No data available

SECTION 15. REGULATORY INFORMATION

\*Regulatory information for CAS# 112945-52-5 (Amorphous Fumed Silica) is found under the general silica:  
Silica CAS# 7631-86-9, EINECS RN #231-545-4

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE:**

IARC, NTP, OSHA CARCINOGENS: Not applicable

SARA TITLE III SECTION 313 TOXIC RELEASE INVENTORY (TRI) CHEMICALS: Not applicable

**15.2 CHEMICAL SAFETY ASSESSMENT:** No data available

HMIS CODES: Health: 1	Flammability: 0	Physical Hazards: 0
NFPA CODES: Health: 1	Flammability: 0	Reactivity: 0

SECTION 16. OTHER INFORMATION

**16.1 INDICATION OF CHANGES**

**CHANGES FROM PREVIOUS REVISION INCLUDE:**

Converted the previous version to GHS SDS format. All sections are affected.

DATE OF PREVIOUS REVISION: 4/24/2014

**16.5 RELEVANT R-, H-, and EUH-phrases (number and full text)**

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation
H318	Causes serious eye damage
H373a	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects