

Material Safety Data Sheet

Issue Date : Jan. 2018 Version: 1.00

Product Name : Tiramics Clear Coating

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1-1. Product Name : Tiramics Clear Coating**1-2. Information of a Manufacturing Company****1-2-1. Company Name** : SeeUm Co., Ltd.**1-2-2. Address** : 210 Shopping Center, Yeonjae Green Tower, 87 Beon-Gil 30, Geojecheon-Ro, Geoje-Dong, Yeonje-Gu, Busan City, South Korea**1-2-3. Phone / Fax** : +82 51 7447786 / +82 51 868 1626**1-2-4. Recommended Use** : Paint, Steel, Aluminum & Bronze Surface Protect Coating

2. COMPOSITION / INFORMATION ON INGREDIENTS

2-1. Chemical Mixture : Liquid mixture

2-2. Chemical description	Chemical formula	Content	CAS No.	Remark
Methylhydrogenpolysiloxane	(CH ₄ O Si) _n C ₆ H ₁₈ O Si ₂	> 10.0%	63148-57-2	
Diethyleneglycol monobuthylether acetate	C ₁₀ H ₂₀ O ₄	< 45.0%	124-17-4	
Paraffin Distillate Aliphatic Hydrocarbone		< 33.0%	8002-74-2	
Titanium Dioxide	TiO ₂	< 7.0%	13463-67-7	
Heptadecafluorodecyltrimethoxysilane	C ₁₃ H ₁₃ F ₁₇ O ₃ Si	> 5.0%	83048-65-1	
Others	No disclosure	-	-	

3. HAZARD IDENTIFICATION

3-1. Emergency Overview : Not regarded as a health hazard under current legislation.**3-2. Potential Health Effects** :**3-2-1. Eye** : May cause eye irritation.**3-2-2. Skin** : May cause eye irritation.**3-2-3. Ingestion** : May cause irritation of the digestive tract. Abdominal discomfort, nausea and diarrhea may occur.**3-2-4. Inhalation** : May cause irritation to respiratory tract.

4. FIRST AID MEASURES

4-1. Eyes : Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally.

Consult an eye specialist if necessary.

4-2. Skin : Wash off with soap and plenty of water. If irritation persists, seek medical attention.**4-3. Ingestion** : Immediately evacuate any remaining liquid from the mouth and seek medical attention.**4-4. Inhalation** : Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

5. FIRE FIGHTING MEASURES

5-1. General Information: This product is not flammable. As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.**5-2. Extinguishing Media**: Use dry chemical, carbon dioxide, appropriate foam, or fine spray water etc.

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6. ACCIDENTAL RELEASE MEASURES

- 6-1. **Personal precautions** : Wear personal protective equipment
6-2. **Environmental precautions** : Contain the spilled material by banding.
6-3. **Methods for cleaning up** : Wipe off or wash affected area with water.

7. HANDLING AND STORAGE

- 7-1. **Handling (Safe handling advice)** : Prior to use, shake well to restore the suspension and promptly clean up spills.
7-2. **Storage (at room temperature)** : Store in a cool and dark place and keep container closed.
7-3. **Packaging** : Store in clean plastic containers.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

- 8-1. **Hand Protection** : Gloves to prevent skin exposure as latex or vinyl.
8-2. **Eye Protection** : Safety spectacles with side shields.
8-3. **Other Protective Equipment** : Wear appropriate clothing to prevent skin exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9-1. **Physical State** : Liquid
9-2. **Color** : Transparent Liquid
9-3. **Odor** : None
9-4. **Vapor pressure** : 0.015 kPa (@20 deg.C)
9-5. **Solubility in water** : Virtually insoluble
9-6. **Flash point** : 132°C / 269.6°F (OPEN CUP)
9-7. **Boiling point** : 246°C/474.8°F
9-8. **Freezing point** : -20°C/-4°F
9-9. **Specific gravity** : 0.92 ± 0.3
9-10. **pH Value** : 6.0~8.0 @20°C
9-11. **(Air=1) Density** : 1.08 g/ml @20°C
9-12. **Auto-Ignition** : 480°C / 896°F
9-13. **VOCs** : < 1%

10. STABILITY AND REACTIVITY INFORMATION

- 10-1. **Chemical Stability** : Stable under normal conditions of use.
10-2. **Conditions to avoid** : None known
10-3. **Incompatible materials** : None known
10-4. **Hazardous decomposition products** : None known
10-5. **Hazardous Reactions** : None known.

11. TOXICOLOGICAL INFORMATION

No information available.

- 11-1. **RTECS#** : Not listed
11-2. **LD50/LC50** : Not listed
11-3. **Carcinogenicity** : Not listed

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12. ECOLOGICAL INFORMATION

The product is not classified as dangerous for the environment. Product should not be allowed to enter drains or water courses.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulation.

14. TRANSPORT INFORMATION

MODE	DOT	IMDG
UN Number	Not a regulated	Not a regulated
No data	Hazardous Material	Hazardous Material

14-1. OTHER INTERNATIONAL TRANSPORTATION REGULATIONS AIR TRANSPORT(IATA-DGR) :

- 14-1-1. UN number : Not subject to IATA regulations
- 14-1-2. Hazard class/Packing group : Not subject to IATA regulations
- 14-1-3. Proper Shipping Name : Not subject to IATA regulations
- 14-1-4. Technical name : Not subject to IATA regulations
- 14-1-5. Hazard Label(s) : Not subject to IATA regulations
- 14-1-6. DOT Packaging requirements : Not subject to IATA regulations

15. REGULATORY INFORMATION

- 15-1. OSHA** : Not regulated
- 15-2. Risk phrases** : Not regulated
- 15-3. Safety phrases** : Not regulated
- 15-4. SARA**(Superfund Amendments and Reauthorization Act) : No information available
- 15-5. EU** : No information available

16. ADDITIONAL INFORMATION

The information provided in this Safety Data Sheet is correct to the best our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

...The End of MSDS...