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**SunChemical**<sup>®</sup>

a member of the DIC group 

SHANGHAI YOUJU INTERNATIONAL TRADING  
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April 05, 2012

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# Material Safety Data Sheet

## 1. Product and company identification

Product code	: MTG-FORMM:MATTE CL
Product name	: MTG-FORMM:MATTE CLEAR:G295
Material uses	: Printing. Colorant.
Manufacturer/ Distributor	: Sun Chemical Corporation 631 Central Avenue Carlstadt, NJ 07072
In case of emergency	: (800) 424-9300 (U.S.) (703) 527-3887 (International)
Regulatory information	: Canada: (905) 796-2222 US: (201) 933-4500
Other information	: (513) 830-8500
Date of revision	: 3/28/2012.

## 2. Hazards identification

Physical state	: Liquid.
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview	: Warning! May be harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Do not breathe vapor or mist. Do not ingest. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Routes of entry	: Dermal contact. Inhalation.
<u>Potential acute health effects</u>	
Eyes	: Irritating to eyes.
Skin	: Irritating to skin. May cause sensitization by skin contact.
Inhalation	: Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	: Harmful if swallowed.
<u>Potential chronic health effects(Long term exposure)</u>	
Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: No known significant effects or critical hazards.
Teratogenicity / Reproductive toxicity	: No known significant effects or critical hazards.
Target organs	: Not available.
Medical conditions aggravated by over- exposure	: Pre-existing skin disorders may be aggravated by over-exposure to this product.
See toxicological information (Section 11)	

### 3 . Composition/information on ingredients

<u>Hazardous ingredients</u>	<u>CAS number</u>	<u>%</u>
Isobornyl Acrylate	5888-33-5	10 - 25
Acrylated resin	proprietary	10 - 25
2-Phenoxy-ethyl acrylate	48145-04-6	10 - 25
N-vinyl caprolactam	2235-00-9	5 - 10
Proprietary Initiator	Proprietary	2.5 - 5

### 4 . First aid measures

<b>Eye contact</b>	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops. In case of accidental skin contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of skin.
<b>Inhalation</b>	: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
<b>Ingestion</b>	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 5 . Fire-fighting measures

<b>Flammability of the product</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Products of combustion</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
<b><u>Extinguishing media</u></b>	
<b>Suitable</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	: None known.
<b>Special exposure hazards</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Flammability (OSHA criteria)</b>	: IIIB
<b>Flash point</b>	: Lowest known value: >93.3°C (200°F) (Closed cup)

### 6 . Accidental release measures

<b>Personal precautions</b>	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
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## 6 . Accidental release measures

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used, without Personal Protective Equipment measures. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- Keep away from direct sunlight or strong incandescent light.

## 8 . Exposure controls/personal protection

### Consult local authorities for acceptable exposure limits.

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9 . Physical and chemical properties

Physical state	: Liquid.
Boiling/condensation point	: Lowest known value: 100°C (212°F)
Melting/freezing point	: May start to solidify at the following temperature: 0°C (32°F) This is based on data for the following ingredient: water.
Flash point	: Lowest known value: >93.3°C (200°F) (Closed cup)
VOC	: 0.04%
Density	: 1.072 g/cm <sup>3</sup> (8.945 lbs/gal)
Vapor density	: Highest known value: >1 (Air = 1) (1-Hydroxycyclohexyl Phenyl Ketone). Weighted average: 1.1 (Air = 1)
Evaporation rate	: Highest known value: <1 (water) Weighted average: 0.9 compared with butyl acetate

## 10 . Stability and reactivity

Stability and reactivity	: The product is stable.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity - Light	: May polymerize on exposure to light.

## 11 . Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isobornyl Acrylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	4890 mg/kg	-
2-propenoic acid, 2-phenoxyethyl ester	LD50 Dermal	Rabbit	2540 uL/kg	-
	LD50	Rat	900 mg/kg	-
	Intraperitoneal			
n-vinylcaprolactam	LD50 Oral	Rat	4660 uL/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1400 mg/kg	-

**Conclusion/Summary** : No known significant effects or critical hazards.

### Chronic toxicity

**Conclusion/Summary** : No known significant effects or critical hazards.

### Carcinogenicity

**Conclusion/Summary** : No known significant effects or critical hazards.

### Mutagenicity

**Conclusion/Summary** : No known significant effects or critical hazards.

### Teratogenicity

**Conclusion/Summary** : No known significant effects or critical hazards.

### Reproductive toxicity

**Conclusion/Summary** : No known significant effects or critical hazards.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

**Conclusion/Summary** : Not available.

### Biodegradability

**Conclusion/Summary** : Not available.

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Refer to protective measures listed in sections 7 and 8.  
Empty containers or liners may retain some product residues.

## 14 . Transport information

Not regulated.

## 15 . Regulatory information

**HCS Classification** : Irritating material  
Sensitizing material

**TSCA 8(b) inventory** : Listed

**U.S. Federal regulations** : **TSCA 4(a) final test rules:** No products were found.  
**TSCA 4(a) ITC priority list:** No products were found.  
**TSCA 4(a) proposed test rules:** No products were found.  
**TSCA 5(a)2 final significant new use rules:** No products were found.  
**TSCA 5(a)2 proposed significant new use rules:** No products were found.  
**TSCA 5(e) substance consent order:** No products were found.  
**TSCA 6 final risk management:** No products were found.  
**TSCA 6 proposed risk management:** No products were found.  
**TSCA 8(a) CAIR:** No products were found.  
**TSCA 8(a) chemical risk rules:** No products were found.  
**TSCA 8(a) dioxin/furane precursor:** No products were found.  
**TSCA 8(a) IUR Exempt/Partial exemption:** Not determined  
**TSCA 8(a) PAIR:** Dimethylpolysiloxane  
**TSCA 8(c) calls for record of SAR:** No products were found.  
**TSCA 8(d) H and S data reporting:** Dimethylpolysiloxane  
**TSCA 12(b) annual export notification:** No products were found.  
**TSCA 12(b) one-time export:** No products were found.  
**Commerce control list precursor:** No products were found.  
**TSCA commerce control list:** Not listed  
**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** No products were found.  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** No products were found.  
**Clean Water Act (CWA) 307:** phenol  
**Clean Water Act (CWA) 311:** phenol; formaldehyde  
**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.  
**Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.  
**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

## 15 . Regulatory information

### SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Supplier notification	: Glycol Ethers	48145-04-6	19.481

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**CONEG** : In compliance.

### International lists

**International lists** :

- Canada inventory:** At least one component is not listed.
- Australia inventory (AICS):** At least one component is not listed.
- China inventory (IECSC):** At least one component is not listed.
- Japan inventory:** At least one component is not listed.
- Korea inventory:** At least one component is not listed.
- New Zealand Inventory of Chemicals (NZIoC):** At least one component is not listed.
- Philippines inventory (PICCS):** At least one component is not listed.
- Europe Inventory:** Please contact your supplier to get the information.

## 16 . Other information

**Label requirements** : CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED.

**Hazardous Material Information System (U.S.A.)** :

Health	2
Fire hazard	1
Reactivity	1

**Personal protection**

**Version** : 3

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MTG-FORMM