

Material Safety Data Sheet

Product and company identification

Product code

: OEM-W501

Product name

: Opaque White

Material uses

: Printing.

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

(201) 933-4500

Other information

: (513) 830-8500

Date of revision

: 7/23/2010.

Hazards identification

Physical state

: Liquid.

Color

: White.

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Emergency overview

: WARNING!

CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION.

MAY BE HARMFUL IF SWALLOWED.

CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING

ORGANS: LUNGS, RESPIRATORY TRACT, SKIN.

Routes of entry

Dermal contact, Inhalation.

Potential acute health effects

Eyes

: Irritating to eyes.

Skin

: Irritating to skin. May cause sensitization by skin contact.

Inhalation

: Irritating to respiratory system. May cause sensitization by inhalation. Exposure to

decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

Ingestion

Harmful if swallowed.

Potential chronic health effects

Carcinogenic effects

Contains material which can cause cancer. Risk of cancer depends on duration and

level of exposure.

Mutagenic effects

: No known significant effects or critical hazards.

Teratogenicity /

No known significant effects or critical hazards.

Reproductive toxicity

Medical conditions

: Pre-existing respiratory and skin disorders may be aggravated by over-exposure to this

aggravated by over-

product.

exposure

See toxicological information (section 11)

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2. Hazards identification

3. Composition/information on ingredients

Hazardous ingredients	CAS number	<u>%</u>
N-vinyl caprolactam	2235-00-9	10 - 25
Talc	14807-96-6	5 - 10
2-Phenoxy-ethyl acrylate	48145-04-6	5 - 10
Isobornyl Acrylate	5888-33-5	5 - 10
Acrylated Resin	80100015-47651	2.5 - 5
ACRYLATED RESIN	00901401000-	2.5 - 5
	6335	
Proprietary initiator	Proprietary	2.5 - 5
1-Hydroxycyclohexyl Phenyl Ketone	947-19-3	2.5 - 5

4. First aid measures

Eye contact

: 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.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

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.

Inhalation

: 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.

Ingestion

: 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.

Protection of first-aiders

: 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

Flammability of the product

: In a fire or if heated, a pressure increase will occur and the container may burst.

Products of combustion

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides metal oxide/oxides

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Fire-fighting measures 5.

Special exposure hazards

: 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.

for fire-fighters

Special protective equipment: Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Flammability (OSHA criteria) : IIIB

Flash point

: Lowest known value: >93.3°C (200°F) (Closed cup)

6. Accidental release measures

Personal precautions

: 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).

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.

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. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. 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

Product name

Exposure limits

Talc

ACGIH TLV (United States, 1/2009).

TWA: 0.1 f/cc 8 hour(s).

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.

8. Exposure controls/personal protection

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

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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. 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.

Color

: White.

Flash point

: Lowest known value: >93.3°C (200°F) (Closed cup)

VOC

: 0.02%

Density

: 1.56 g/cm3 (13.016 lbs/gal)

Vapor density

: Highest known value: >1 (Air = 1) (1-Hydroxycyclohexyl Phenyl Ketone).

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 2-propenoic acid, 2-phenoxyethyl ester LD50 Dermal Rabbit 2540 uL/kg 900 mg/kg LD50 Rat Intraperitoneal LD50 Oral 4660 uL/kg Rat Isobornyl Acrylate LD50 Dermal Rabbit >5 g/kg LD50 Oral Rat 4890 mg/kg LD50 Dermal >2000 mg/kg Rat n-vinylcaprolactam 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.

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11. Toxicological information

 Classification

 Product/ingredient name
 ACGIH
 IARC
 EPA
 NIOSH
 NTP
 OSHA

 Talc (Mg3H2(SiO3)4)
 A1
 1

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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. 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

Carcinogen

TSCA 8(b) inventory

: Listed

U.S. Federal regulations

: TSCA 4(a) dioxins/furanes testing: No products were found.

TSCA 4(a) final testing order: No products were found.

TSCA 4(a) final test rules: 4-Methoxyphenol

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 rules: No products were found.

TSCA 5(a)2 proposed significant rules: No products were found.

TSCA 5(e) substance consent order: No products were found.

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TSCA 6 final risk management: No products were found.

15. Regulatory information

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/furan precursor: No products were found.

TSCA 8(a) IUR: propoxylated glycerol triacrylated; Acrylic Resin

TSCA 8(a) PAIR: 4-Methoxyphenol

TSCA 8(c) calls for record of SAR: No products were found.

TSCA 8(d) H and S data reporting: No products were found.

TSCA 12(b) annual export notification: No products were found.

TSCA 12(b) one-time export: No products were found.

TSCA precursor chemical list: No products were found.

TSCA commerce control list: No products were found.

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: titanium dioxide

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: titanium dioxide: Immediate (acute) health hazard; Talc (Mg3H2(SiO3)4): Immediate (acute) health hazard

Clean Water Act (CWA) 307: phenol Clean Water Act (CWA) 311: phenol

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.

SARA 313

Form R - Reporting requirements

Product name

: Glycol Ethers

CAS number

Concentration

48145-04-6 9.2824

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.
Europe inventory: All components are listed or exempted.
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.

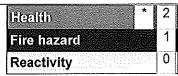
16. Other information

Label requirements

: CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

16. Other information

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



Personal protection

Version

: 0.02

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.

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