

Material Safety Data Sheet

1. Product and company identification

Product code : 841294/HN63
Product name : DiCoat™ Matte EX
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
US: (201) 933-4500
Other information : (513) 830-8500
Date of revision : 6/2/2011.

2. 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!
May be harmful if swallowed. Irritating to eyes. Moderately irritating to the skin. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Routes of entry : Dermal contact. Inhalation.
Potential acute health effects
Eyes : Irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : Harmful if swallowed.
Potential chronic health effects(Long term exposure)
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 : None known.
See toxicological information (Section 11)

3 . Composition/information on ingredients

Hazardous ingredients

Dioctyl Sodiamsulfosuccinate

CAS number

577-11-7

%

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.
- 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.
- 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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
sulfur oxides
metal oxide/oxides

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- 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.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Flash point** : Closed cup: Not applicable.

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.

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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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.

8 . Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure 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** : 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.
- 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** : Closed cup: Not applicable.
- VOC** : 0%
- Density** : 1.017 g/cm³ (8.484 lbs/gal)
- Evaporation rate** : <1 (water) 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	: Not applicable.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Diocetyl Sodium Sulfosuccinate	LD50 Intraperitoneal	Rat	590 mg/kg	-
	LD50 Oral	Rat	1900 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

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:** Butyl Acrylate
- 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:** Siloxanes and Silicones, di-Me, hydroxy-terminated; Dimethylpolysiloxane; Dimethyl Cyclosiloxane; glutaral
- TSCA 8(c) calls for record of SAR:** No products were found.
- TSCA 8(d) H and S data reporting:** Butyl Acrylate; Dimethylpolysiloxane; Dimethyl Cyclosiloxane; glutaral
- TSCA 12(b) annual export notification:** Butyl Acrylate
- 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:** Ethyl Benzene; NJTSRN-1470; toluene
- Clean Water Act (CWA) 311:** Ammonia; Styrene Monomer; Ethyl Benzene; toluene
- 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

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Supplier notification	: None identified.		

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

15 . Regulatory information

International lists : **Canada inventory:** All components are listed or exempted.
Europe inventory: At least one component is not listed in EINECS but all such components are listed in ELINCS.
 Please contact your supplier for information on the inventory status of this material.
Australia inventory (AICS): Not determined.
China inventory (IECSC): Not determined.
Japan inventory: Not determined.
Korea inventory: Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.

16 . Other information

Label requirements : CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE SKIN IRRITATION.

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

Health	1
Fire hazard	0
Reactivity	0

Personal protection

Version : 0.14

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.

841294

VOLATILE COMPONENT INFORMATION

	US EPA Designate
A. Product Density:	
1.) 1.017 g/cm ³ (8.484 lbs/gal)	=(Dc)s
B. Nonvolatile Content:	
1.) 100 Weight percent of nonvolatiles in product	=(Wn)s
2.) 55.23 Volume percent of nonvolatiles in product	=(Vn)s
3.) 15.35 Density, lb nonvolatiles/gal nonvolatiles	=(Dn)s
C. Volatiles:	
1.) 0 Weight percent of total volatiles in product	=(Wv)s
2.) 28970.91 Density, lb volatiles/gal volatiles	=(Dv)s
D. Water Content:	
1.) 65 Weight percent of water in product	=(Ww)s
2.) 66.12 Volume percent of water in product	=(Vw)s
E. Volatile Organic Compounds, (VOCs):	
1.) -65.38 Weight percent of organic volatiles in product	=(Wo)s
2.) 0.27 Volume percent of organic volatiles in product	=(Vo)s
3.) -2049.86 Density, lb organic volatiles/gal organic volatiles	=(Do)s
4.) 0 Weight percent of VOCs in total volatiles	=(Wo)v
5.) 0 Volume percent of VOCs in total volatiles	=(Vo)v
F. VOC Content in Product Expressed in Other Terms:	
1.) a.) -5.54 lb VOC / gal Product	
1.) b.) -664.64 grams VOC / liter Product	
2.) a.) -9.99 lb VOC / gal Product less water & exempt solvent	
2.) b.) -1197.34 grams VOC / liter Product less water & exempt solvent	
2.) c.) 0 Weight percent of organic volatiles (VOC) in Product less water & exempt solvents.	
3.) -10.04 lb VOC / gal total nonvolatiles	

G. Volatiles

Ingredient	CAS number	% by weight	Density (lb/gal)
1.) Hazardous Air Pollutants VOCs (HAPs)			
Styrene Monomer	100-42-5	0.01	7.91
acrylic acid	79-10-7	0.01	8.77
Glycol Ethers	Not applicable.	0.03	8.22
2.) Other VOCs (Non-HAPs)			
Propylene Glycol	57-55-6	0.27	8.64
AMINE SALT OF MODIFIED ACRYLIC COPOLYMER		0.09	8.99
VOC's present at <0.10% (cumulative)		0.01	7.5
3.) water	7732-18-5	65	8.34
4.) Ammonia (reported as CAS# 7664-41-7; includes CAS# 1336-21-6)	7664-41-7	0.25	5.99
5.) Other Non-VOC, Non-HAP Volatiles		0.13	8.08

NOTE: The term Volatile Organic Compounds (VOC) refers only to volatile organic materials as defined by the US EPA and does not include water, ammonia, acetone or other exempt solvents. Unless otherwise stated, the VOC values reported above are based on materials of construction.