Sun Chemical Corporation 2445 Production Drive

SAINT CHARLES USA

IL 60174



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July 30, 2013

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





# **Material Safety Data Sheet**

# 1. Product and company identification

Product code : PD-M50

Product name : PD-M50 Magenta

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
 : 2/19/2013.

#### 2. Hazards identification

Physical state : Liquid.
Color : Red.

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

**Emergency overview**: Warning!

Harmful by inhalation. May be harmful if absorbed through skin or if swallowed. Severely irritating to eyes. Irritating to respiratory system and skin. May cause

sensitization by skin contact. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. 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.

Potential acute health effects

**Eyes** : Severely irritating to eyes.

**Skin**: Harmful in contact with skin. Irritating to skin. May cause sensitization by skin contact.

Inhalation : Toxic by 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.

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 / : No known significant effects or critical hazards.

Reproductive toxicity

exposure

Target organs : Contains material which may cause damage to the following organs: kidneys, lungs,

liver, cardiovascular system, upper respiratory tract, eyes.

Medical conditions : Pre-existing skin disorders and disorders involving any other target organs mentioned in

aggravated by overthis MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

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#### Hazards identification 2.

#### 3. **Composition/information on ingredients**

Hazardous ingredients	CAS number	<u>%</u>
Isobornyl Acrylate	5888-33-5	10 - 25
N-Vinylpyrrolidone	88-12-0	10 - 25
2-Phenoxy-ethyl acrylate	48145-04-6	10 - 25
Aliphatic Urethane Acrylate	CN966	5 - 10
2-Hydroxy-2-Methyl-1-Phenyl-1-Propanone	7473-98-5	5 - 10
Proprietary initiator	Proprietary	1 - 2.5

#### First aid measures 4.

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 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.

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.

: No action shall be taken involving any personal risk or without suitable training. If it is **Protection of first-aiders** 

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.

#### Fire-fighting measures 5.

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.

: Promptly isolate the scene by removing all persons from the vicinity of the incident if Special exposure hazards

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)

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

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#### 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. Do not breathe 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. 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 breathe vapor or mist. Do not ingest. 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** 

N-Vinylpyrrolidone

ACGIH TLV (United States, 1/2011).

TWA: 0.05 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

**Engineering measures** 

: Use only with adequate ventilation. 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.

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#### 8. **Exposure controls/personal protection**

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.

#### Physical and chemical properties 9.

**Physical state** : Liquid. Color : Red.

: Not available. Odor

**Boiling/condensation point** : Lowest known value: 217°C (423°F)

**Melting/freezing point** : May start to solidify at the following temperature: 13°C (55.4°F) This is based on data for

the following ingredient: N-Vinylpyrrolidone.

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

VOC : 0.16%

: Lowest known value: 364°C (687.2°F) (N-Vinylpyrrolidone). **Auto-ignition temperature** 

Density : 1.076 g/cm<sup>3</sup> (8.978 lbs/gal)

: Highest known value: 3.83 (Air = 1) (N-Vinylpyrrolidone). Weighted average: 3.21 (Air Vapor density

= 1)

: Highest known value: <1 (N-Vinylpyrrolidone) Weighted average: 0.9compared with **Evaporation rate** 

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.

Conditions of reactivity

# 11. Toxicological information

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-propenoic acid, 2-phenoxyethyl ester	LD50 Dermal	Rabbit	2540 uL/kg	-
	LD50	Rat	900 mg/kg	-
	Intraperitoneal			
	LD50 Oral	Rat	4660 uL/kg	-
Isobornyl Acrylate	LD50 Dermal	Rabbit	>5 g/kg	-
•	LD50 Oral	Rat	4890 mg/kg	-
2-Hydroxy-2-Methyl-1-Phenyl-1-Propanone	LD50 Dermal	Rat	6929 mg/kg	-
	LD50 Oral	Rat	1694 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.

Classification

Product/ingredient name **ACGIH IARC EPA** NIOSH **NTP OSHA** N-Vinylpyrrolidone A3 3

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### 11. Toxicological information

**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.

Other adverse effects

: No known significant effects or critical hazards.

### 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. 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** 

: Toxic material Irritating material Sensitizing material Target organ effects

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.

 $\label{thm:condition} \textbf{TSCA 5(a)2 proposed significant new use rules} : \textbf{No products were found}.$ 

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: 4-Methoxyphenol

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## 15. Regulatory information

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.

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: N-Vinylpyrrolidone; Talc

(Mg3H2(SiO3)4)

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: N-Vinylpyrrolidone: Fire hazard, Immediate (acute) health hazard; Talc (Mg3H2(SiO3)4): Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: toluene; benzene Clean Water Act (CWA) 311: toluene; benzene

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** 

Product name CAS number Concentration

Supplier notification : Glycol Ethers 48145-04-6 10.26

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 in DSL but all such components

are listed in NDSL.

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

**Japan inventory**: All components are listed or exempted. **Korea inventory**: At least one component is not listed.

New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): At least one component is not listed. Europe Inventory: Please contact your supplier to get the information.

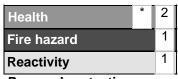
#### 16. Other information

Label requirements : HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN

IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTAINS MATERIAL THAT

MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

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



Personal protection

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Notice to reader

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### 16. Other information

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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