

# Material Safety Data Sheet

431-8320 OPTICLEAR 900 LOW VOC (20 SHEEN)

## Product and company identification

: 431-8320 Code

OPTICLEAR 900 LOW VOC (20 SHEEN) **Synonym Material uses** Coatings: Surface coatings and finishes

**Manufacturer** Chemcraft® Coating Technology Inc.

311 Otterson Drive, Suite 60

Chico, CA 95928

Ph:530-894-3585 Fax:530-896-0657

In case of emergency 1-800-424-5571

5/8/2006. Validation date **Print date** 1/15/2008. Validator S.Bice

## **Hazardous ingredients**

Name	CAS number	<u>%</u>
Acetone	67-64-1	30 - 50
n-Butyl acetate	123-86-4	15 - 30
Isobutyl alcohol	78-83-1	5 - 15
Isopropanol	67-63-0	5 - 15
Propylene glycol monomethyl ether acetate	108-65-6	1 - 5
Ethyl alcohol	64-17-5	0.1 - 1

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

\* Toxicological information, if available, is listed in section 11

### 3. Hazards identification

**Physical state** 

: Liquid.

**OSHAHCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA: Standard for Occupational Exposure to Formaldehyde 29CFR 1910.1048 must be consulted before initial use of product.

Routes of entry

: Dermal contact. Eye contact. Inhalation. Ingestion.

**Effects of Acute** 

**Exposure** 

Not applicable.

Potential chronic health

effects

: CARCINOGENIC EFFECTS: Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanone]. Classified D (Not classifiable for humans or animals.) by EPA [2-Propanone]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Phosphoric acid, monobutyl ester].

**MUTAGENIC EFFECTS**: Not available.

TERATOGENIC EFFECTS: Classified None. for humans [2-Propanone].

**Medical conditions** aggravated by overexposure

Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

1/15/2008. Page: 1/7

### 4. First aid measures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training.

## 5. Fire-fighting measures

Flammability of the product

: Flammable.

Products of combustion

These products are carbon oxides (CO, CO<sub>2</sub>).

: Use an extinguishing agent suitable for the surrounding fire.

**Extinguishing media** 

None known.

Not suitable

**Suitable** 

: No specific hazard.

Special exposure hazards
Special Remarks on

FLAMMABLE. (2-Propanone)

Fire Hazards
Special protective

· = .......

equipment for fire-fighters Fire Hazards in Presence of Various Substances

: Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

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

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

Highly flammable in the presence of the following materials or conditions: heat.

Explosion Hazards in Presence of Various Substances

: Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.

## 6. Accidental release measures

Personal precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up

: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

1/15/2008. Page: 2/7

## Handling and storage

Handling Storage

- Wash thoroughly after handling.
- : Keep container tightly closed. Keep container in a cool, well-ventilated area.

### 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 airborne levels. 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, gases 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.

## Physical and chemical properties

**Physical state** 

**Flash point** 

: Liquid.

Auto-ignition temperature

Flammable limits

The greatest known range is Lower: 1.3% Upper: 13.1% (2-Propanol, 1-methoxy, acetate)

The lowest known value is 407°C (764.6°F) (Acetic Acid, Butyl Ester).

The lowest known value is Closed cup: -18°C (-0.4°F). (T.C.C. ). (2-Propanone)

**Boiling/condensation point** 

: The lowest known value is 56.2°C (133.2°F) (2-Propanone). Weighted average: 88.47°C (191.2°F)

Melting/freezing point

May start to solidify at -77.9°C (-108.2°F) based on data for: Acetic Acid, Butyl Ester. Weighted average: -91.85°C (-133.3°F)

Relative density

: Weighted average: 0.89 (Water = 1)

Vapor pressure

The highest known value is 24.1 kPa (181 mm Hg) (at 20°C) (2-Propanone). Weighted average: 15.08 kPa (113.11 mm Hg) (at 20°C)

Vapor density

**Evaporation rate** 

The highest known value is 4.6 (Air = 1) (2-Propanol, 1-methoxy, acetate). Weighted average: 2.72 (Air = 1)

: The highest known value is 1 (Acetic Acid, Butyl Ester) Weighted average: 0.89compared with Butyl acetate.

Dispersibility properties

: Not dispersible in cold water, hot water, methanol. See solubility in methanol, diethyl ether, n-octanol, acetone.

Solubility

Easily soluble in methanol, diethyl ether, acetone. Partially soluble in n-octanol. Insoluble in cold water, hot water.

1/15/2008. Page: 3/7

## 10. Stability and reactivity

Stability and reactivity Conditions of instability

Incompatibility with various substances

- : The product is stable.
- : Avoid contact with oxidizing agents. (Benzene, (1-methylethenyl)-)
- : Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis.

Slightly reactive or incompatible with the following materials: organic materials.

## 11. Toxicological information

### **Toxicity data**

Product/ingredient name	Test	Result	Route	<b>Species</b>
2-Propanone	LD50	5800 mg/kg	Oral	Rat
•	LD50	3000 mg/kg	Oral	Mouse
	LD50	20000 mg/kg	Dermal	Rabbit.
	LC50	50100 mg/m <sup>3</sup> (8 hour/hours)	Inhalation	Rat
	LC50	44000 mg/m <sup>3</sup> (4 hour/hours)	Inhalation	Mouse
Acetic Acid, Butyl Ester	LD50	14130 mg/kg	Oral	Rat
·	LD50	7100 mg/kg	Oral	Mouse
	LD50	5000 mg/kg	Dermal	Rabbit
	LD50	8770 mg/kg	Dermal	Guinea pig
1-Propanol, 2-methyl-	LD50	2500 mg/kg	Oral	Rat.
	LD50	3200 mg/kg	Oral	Mouse
	LD50	4200 mg/kg	Dermal	Rabbit.

### **Chronic effects on humans**

: CARCINOGENIC EFFECTS: Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanone]. Classified D (Not classifiable for humans or animals.) by EPA [2-Propanone]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Phosphoric acid, monobutyl ester].

**TERATOGENIC EFFECTS**: Classified None. for humans [2-Propanone]. Contains material which causes damage to the following organs: blood, kidneys, lungs, the nervous system, liver.

## Other toxic effects on humans

Special remarks on toxicity to animals

- : Very hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
- : In laboratory inhalation studies, birth defects, increased foetal lethality and delayed foetal development have been observed in offspring of female animals, exposed during pregnancy, with a threshold response level in the range of 545 ppm concentration in the air. (1-Propanol, 2-methoxy-, acetate)

## Special remarks on chronic effects on humans

Special remarks on other toxic effects on humans

- : 0070 Passes through the placental barrier in human. (1-Propanol, 2-methyl-)
- : Material is irritating to mucous membranes and upper respiratory tract. (2-Propanone)

### Specific effects

Carcinogenic effects

**Mutagenic effects** 

Teratogenicity / Reproductive toxicity

- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

1/15/2008. Page: 4/7

### 431-8320 OPTICLEAR 900 LOW VOC (20 SHEEN)

## 12. Ecological information

Environmental precautions

Octanol/water partition coefficient

: No known significant effects or critical hazards.

: The product is more soluble in octanol.

**Bioconcentration factor** 

Products of degradation

Not available.
These products are carbon oxides (CO, CO<sub>2</sub>) and water.

Toxicity of the products of biodegradation

: The product itself and its products of degradation are not toxic.

## 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Class	PG*	Label
TDG Classification	1263 PAINT	3	II	
PG* : Packing group				

## 15 . Regulatoryinformation

### **United States**

HCS Classification
U.S. Federal regulations

: Target organ effects

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: Acetic Acid, Butyl Ester; 2-Propanol: Fire hazard, Delayed (chronic) health hazard; Isobutyl alcohol: Fire hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: Benzene, ethyl-

Clean Water Act (CWA) 311: No products were found.

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.

1/15/2008. Page: 5/7

## 15. Regulatoryinformation

### State regulations

: **WARNING:** This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Formaldehyde

**WARNING:** This product contains chemical/chemicals known to the state of California to cause cancer.: Formaldehyde

Illinois toxic substances disclosure to employee act: Benzene, ethyl-

New York release reporting list: Acetic Acid, Butyl Ester New York acutely hazardous substances: Benzene, ethyl-

Rhode Island RTK hazardous substances: Benzene, ethyl-

Pennsylvania RTK: Acetic Acid, Butyl Ester; Isopropyl alcohol; Acetic acid,

2-methylpropyl ester; Ethanol; Benzene, ethyl-; Benzene, dimethyl-

Florida: Acetic Acid, Butyl Ester; Benzene, ethyl-

Minnesota: Acetic Acid, Butyl Ester; Ethanol; Benzene, ethyl-

Massachusetts RTK: Acetic Acid, Butyl Ester; Isopropyl alcohol; Acetic acid,

2-methylpropyl ester; Ethanol; Benzene, ethyl-

New Jersey: Acetic Acid, Butyl Ester; Isopropyl alcohol; Acetic acid, 2-methylpropyl

ester; Ethanol; Benzene, ethyl-

TSCA 8(b) inventory: Acetic Acid, Butyl Ester; Isopropyl alcohol; Acetic acid,

2-methylpropyl ester; Ethanol; Benzene, ethyl-; Benzene, dimethyl-; N-Butyl Alcohol

TSCA 5(e) substance consent order: Acetic Acid, Butyl Ester

TSCA 8(d) H and S data reporting: Benzene, ethyl-

TSCA 12(b) annual export notification: Acetic Acid, Butyl Ester

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Acetic Acid, Butyl Ester; 2-Propanol: Fire hazard, Delayed (chronic) health hazard; Isobutyl

alcohol: Fire hazard, Delayed (chronic) health hazard

CERCLA: Hazardous substances.: Acetic Acid, Butyl Ester; Acetone; Acetic acid, 2-methylpropyl ester; Isobutyl alcohol; Benzene, ethyl-: 1000 lbs. (453.6 kg); Benzene, dimethyl-: 100 lbs. (45.36 kg); N-Butyl Alcohol;

Ingredient name	<u>Cancer</u>	Reproductive	No significant risk level	Maximum acceptable dosage level
Acetic acid, 2-methylpropyl ester	No.	No.	No.	No.
Formaldehyde	Yes.	No.	No.	No.

### Canada

WHMIS (Canada)

: Class B-2: Flammable liquid

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

## 16. Other information

Label requirements

: EXTREMELY FLAMMABLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
BLOOD, KIDNEYS, LUNGS, NERVOUS SYSTEM, LIVER.

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



1/15/2008. Page: 6/7

431-8320 OPTICLEAR 900 LOW VOC (20 SHEEN)

## 16. Other information

\* Indicates may be chronic effects

National Fire Protection Association (U.S.A)



### 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.

1/15/2008. Page: 7/7