

# **Material Safety Data Sheet**

### 431-3920 OPTICLEAR 275 LOW GLOSS

### 1. Product and company identification

Code : 431-3920

Synonym : OPTICLEAR 275 LOW GLOSS

**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

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 : 2/5/2007.

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 : 3/18/2008.

 Validator
 : K. DeBiasi

### 2. Hazardous ingredients

<u>Name</u>	CAS number	<u>%</u>
Acetone	67-64-1	50 - 70
Chlorobenzotrifluorides	98-56-6	5 - 15
Ethylene glycol monobutyl ether	111-76-2	1 - 5
Isopropanol	67-63-0	1 - 5
Potential additional emission of formaldehyde	50-00-0*	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.

### 3. Hazards identification

**Physical state** 

: Liquid.

**OSHA/HCS** 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

: Do not ingest. Do not get in eyes or on skin or clothing. Wash thoroughly after handling. Risk of cancer depends on duration and level of exposure.

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 4 (Probably not for humans.) by IARC [Silica gel, pptd., cryst.-free]. Classified 1 (Proven for humans.) by IARC [Potential additional emission of formaldehyde]. Classified A2 (Suspected for humans.) by ACGIH, 2 (Reasonably anticipated to be human carcinogens.) by NTP [Potential additional emission of formaldehyde]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Phosphoric acid, monobutyl ester]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [1-Butanol].

**MUTAGENIC EFFECTS**: Not available.

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

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<sup>\*</sup> Toxicological information, if available, is listed in section 11

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### 3. Hazards identification

Medical conditions aggravated by overexposure : Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

### 4. First aid measures

Eye contact

: Get medical attention immediately. 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.

**Skin contact** 

: Get medical attention immediately. Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

: Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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

: Get medical attention immediately. 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. 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

Products of combustion

: Flammable.

: These products are carbon oxides (CO, CO<sub>2</sub>), halogenated compounds, hydrogen chloride, hydrogen fluoride.

Extinguishing media

Suitable

Not suitable

Special exposure hazards
Special Remarks on
Fire Hazards
Special protective
equipment for fire-fighters

Fire Hazards in Presence of Various Substances

Explosion Hazards in Presence of Various Substances

- : Use an extinguishing agent suitable for the surrounding fire.
- : None known.
- : No specific hazard.
- FLAMMABLE. (2-Propanone)
- : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
- Highly flammable in the presence of the following materials or conditions: heat.

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

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### 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.

# 7. Handling and storage

Handling Storage

- : Do not ingest. Do not get in eyes or on skin or clothing. 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** 

: Use only with adequate ventilation. If user operations generate dust, fumes, 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, 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

**Auto-ignition temperature** 

Flammable limits

pН

Boiling/condensation point

- : Liquid.
- : The lowest known value is Closed cup: -18°C (-0.4°F). (T.C.C.). (2-Propanone)
- : The lowest known value is 244.45°C (472°F) (Ethanol, 2-butoxy-).
- : The greatest known range is Lower: 2.6% Upper: 12.8% (2-Propanone)
- : Neutral.
- int : The lowest known value is 56.2°C (133.2°F) (2-Propanone). Weighted average: 99.33°C (210.8°F)
- Melting/freezing point
- : May start to solidify at -36°C (-32.8°F) based on data for: Benzene, 1-chloro-4-(trifluoromethyl)-. Weighted average: -81.19°C (-114.1°F)
- **Relative density**
- Vapor pressure
- 0.943 (Water = 1)
- : The highest known value is 24.1 kPa (181 mm Hg) (at 20°C) (2-Propanone). Weighted average: 17.78 kPa (133.36 mm Hg) (at 20°C)

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### 9. Physical and chemical properties

Vapor density : The highest known value is 2.1 (Air = 1) (2-Propanol). Weighted average: 3.79 (Air = 1)

**Evaporation rate** : 0.9 (Benzene, 1-chloro-4-(trifluoromethyl)-) compared with Butyl acetate.

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

: Easily soluble in methanol, diethyl ether, acetone.

Partially soluble in n-octanol.
Insoluble in cold water, hot water.

### 10. Stability and reactivity

**Stability and reactivity** : The product is stable. **Incompatibility with various** : Reactive or incompati

: Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

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

Hazardous decomposition products

: These products are halogenated compounds, hydrogen chloride, hydrogen fluoride.

# 11. Toxicological information

#### **Toxicity data**

Solubility

substances

Product/ingredient name 2-Propanone	Test LD50 LD50 LD50 LC50	Result 5800 mg/kg 3000 mg/kg 20000 mg/kg 50100 mg/m³ (8 hour/hours)	Route Oral Oral Dermal Inhalation	Species Rat Mouse Rabbit. Rat
	LC50	44000 mg/m <sup>3</sup> (4 hour/hours)	Inhalation	Mouse
Benzene, 1-chloro-	LD50	>6800 mg/kg	Oral	Rat
4-(trifluoromethyl)-	LD50	>2700 mg/kg	Dermal	Rabbit
,	LC50	4479 ppm (4 hour/hours)	Inhalation	Rat
Ethanol, 2-butoxy-	LD50	1746 mg/kg	Oral	Rat
•	LD50	1519 mg/kg	Oral	Mouse
	LD50	1414 mg/kg	Oral	Guinea pig
	LD50	>2000 mg/kg	Dermal	Guinea pig
	LD50	435 mg/kg	Dermal	Rabbit
	LD50	490 mg/kg	Dermal	Rat
Potential additional emission of	LD50	100 mg/kg	Oral	Rat
formaldehyde	LD50	270 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 4 (Probably not for humans.) by IARC [Silica gel, pptd., cryst.-free]. Classified 1 (Proven for humans.) by IARC [Potential additional emission of formaldehyde]. Classified A2 (Suspected for humans.) by ACGIH, 2 (Reasonably anticipated to be human carcinogens.) by NTP [Potential additional emission of formaldehyde]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Phosphoric acid, monobutyl ester]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [1-Butanol].

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

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### 11. Toxicological information

Contains material which causes damage to the following organs: blood, kidneys, lungs, the nervous system, liver, bone marrow, eye, lens or cornea.

Other toxic effects on humans

Special remarks on toxicity to animals

Special remarks on chronic effects on humans

Special remarks on other toxic effects on humans

: Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (permeator).

: Formaldehyde has caused cancer in test animals at high concentrations (5-15 ppm). (Potential additional emission of formaldehyde)

: Detected in maternal milk in human. (2-Propanol)

: Material is irritating to mucous membranes and upper respiratory tract. (2-Propanone)

Carcinogenic effects

Specific effects

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

Mutagenic effects
Teratogenicity /
Reproductive toxicity

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

# 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

Toxicity of the products of biodegradation

Not available.

: These products are carbon oxides (CO, CO<sub>2</sub>) and water, halogenated compounds.

: The products of degradation are as toxic as the product itself.

### 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

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# 15. Regulatoryinformation

#### **United States**

**HCS Classification** 

: Highly toxic material

Carcinogen

Target organ effects

U.S. Federal regulations

: 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: Walsroder NC-Chips E 400 ESO 20%: Fire hazard; 2-Propanol: Fire hazard, Delayed (chronic) health hazard; Benzene, 1-chloro-4-(trifluoromethyl)-: Fire hazard, Sudden release of pressure, Delayed (chronic) health hazard; Ethylene glycol monobutyl ether: Immediate (acute) health

hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.

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

Clean Air Act (CAA) 112 accidental release prevention: Ethylene glycol monobutyl ether

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

**WARNING:** This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Formaldehyde; 2-Pyrrolidinone, 1-methyl-**WARNING:** This product contains chemical/chemicals known to the state of California to cause birth defects or other reproductive harm.: 2-Pyrrolidinone, 1-methyl-

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

Pennsylvania RTK: Isopropyl alcohol; Acetic acid, 2-methylpropyl ester; Benzene, 1-chloro-4-(trifluoromethyl)-; Ethanol, 2-butoxy-; 2-Pyrrolidinone, 1-methyl-

Florida: 2-Pyrrolidinone, 1-methyl-Minnesota: 2-Pyrrolidinone, 1-methyl-

Massachusetts RTK: Isopropyl alcohol; Acetic acid, 2-methylpropyl ester; 2-Pyrrolidinone, 1-methyl-

New Jersey: Isopropyl alcohol; Acetic acid, 2-methylpropyl ester; Benzene, 1-chloro-4-(trifluoromethyl)-; Ethanol, 2-butoxy-; 2-Pyrrolidinone, 1-methyl-

TSCA 8(b) inventory: Isopropyl alcohol; Acetic acid, 2-methylpropyl ester; Benzene, 1-chloro-4-(trifluoromethyl)-; N-Butyl Alcohol; Ethylene glycol monobutyl ether

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Walsroder NC-Chips E 400 ESO 20%: Fire hazard; 2-Propanol: Fire hazard, Delayed (chronic) health hazard; Benzene, 1-chloro-4-(trifluoromethyl)-: Fire hazard, Sudden release of pressure, Delayed (chronic) health hazard; Ethylene glycol monobutyl ether: Immediate (acute) health

hazard, Delayed (chronic) health hazard

CERCLA: Hazardous substances.: Acetone; Acetic acid, 2-methylpropyl ester; N-Butyl Alcohol;

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Acetic acid, 2-methylpropyl ester	No.	No.	No.	No.
2-Pyrrolidinone, 1-methyl-	No.	Yes.	No.	No.
Formaldehyde	Yes.	No.	No.	No.

#### Canada

WHMIS (Canada)

: Class B-2: Flammable liquid

Class D-1A: Material causing immediate and serious toxic effects (Very toxic).

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.

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### 16. Other information

Label requirements

: EXTREMELY FLAMMABLE LIQUID AND VAPOR.

VAPOR MAY CAUSE FLASH FIRE.

CANCER HAZARD.

CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, LUNGS, NERVOUS SYSTEM, LIVER, BONE MARROW, EYE,

LENS OR CORNEA.

MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

Hazardous Material Information System (U.S.A)



<sup>\*</sup> 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.

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