

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	AEROSOL CWF GLOSS	Revision Date:	09/17/2010
Identification Number:	15X013	Print Date:	
Product Use/Class:	CLEAR WOOD FINISH/NITROCELLULOSE LACQUER		
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Extremely Flammable! Harmful by inhalation, in contact with skin, and if swallowed. May cause burns to the eyes and skin. Contact with eyes or skin causes irritation. Affects the central nervous system.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Direct eye contact may cause irritation. Exposure may cause conjunctivitis. Contact may cause excessive blinking and tear production, blurred vision, burns to the eyes, or damage to the conjunctiva may occur. A component may cause sensitization.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include drying and cracking of skin, swelling, redness, rash, pain, burning, and skin burns. Prolonged or repeated skin contact may cause dermatitis, drying, and defatting due to the solvent properties. Contact with skin may cause blistering. Repeated skin contact may cause absorption through the skin, which may cause a coma. The severity of the coma depends on the amount of product absorbed through the skin or ingested. Exposure may cause skin burns. It is possible for one of the components to pass through the skin, and the component may add to the toxic effects of either ingestion or inhalation.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, nausea, weakness, dizziness, staggering gait, confusion, fatigue, drowsiness, unconsciousness, or coma. Exposure may cause chest pain, nasal discomfort, nasal discharge, pulmonary edema, nausea, vomiting, and coughing. Exposure may cause liveliness, a light-headed feeling, and giddiness followed by nausea, weakness, fatigue, and drowsiness. Inhalation may cause headaches, difficult breathing, and loss of consciousness. May cause irregular heartbeats, a tight feeling in the chest, respiratory depression, and narcosis. A component maybe harmful if inhaled. Exposure to high concentrations or overexposure to one or more components may cause respiratory depression or failure, difficult breathing, chest constriction, loss of consciousness, or death.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, diarrhea, and a sore throat. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. Ingestion may cause decreased body temperature and blood pressure, drowsiness, headache, kidney failure, hemolytic anemia, shock, coma, or death. Harmful or fatal if swallowed. Ingestion causes damage to the central nervous system. It may include, acute nervous system depression, which is characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, drowsiness, unconsciousness, or coma. Lung inflammation or other lung injury may occur if isopropanol enters the lungs through vomiting or swallowing. A component may cause liver damage.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop. Contains components listed as a Carcinogen: NTP? : No, IARC Monographs? : Yes, OSHA Regulated? : No. Exposure may cause loss of coordination, confusion, slowed heart rate, effects on the liver and spleen, respiratory depression, lung edema, kidney damage, mild temporary changes to the liver, low blood pressure, or coma. Exposure to concentrated vapors may cause heart arrhythmias, especially those with preexisting heart conditions. May cause muscle weakness and loss of coordination. Preexisting liver or kidney disease may be aggravated by repeated or prolonged exposure.

WARNING: This product contains a chemical known to the state of California to cause cancer. Exposure to a component may cause kidney damage, coma, difficult breathing, liver damage, blood abnormalities (breakage of red

blood cells), blood in the urine, or death. Overexposure to a component has been shown to cause damage to the liver, kidneys, and testis in laboratory animals. Breathing isopropanol vapors has caused damage to the lining of the middle ear in experimental animal. The relevance of this finding to humans is uncertain. Isopropanol, a component of this formulation, has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. Ethylbenzene, a component of this formulation, has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. In animal studies, exposure to a component(s) has been shown to cause damage to the fetus, only at a level of exposure that would also harm the pregnant animal. The relevance of these findings to humans is unknown. It also, has been shown to cause neuropathy, mild reversible kidney effects and mild reversible liver effects in laboratory animals.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Section 3 - Composition / Information On Ingredients

<u>Component</u>	<u>CAS Number</u>	<u>Weight % Reporting Ranges</u>
ACETONE	67-64-1	10-30
2-BUTANONE (MEK)	78-93-3	10-30
PROPANE	74-98-6	10-30
ISOPROPANOL ANHYDROUS	67-63-0	5-10
METHYL ISOBUTYL KETONE	108-10-1	5-10
SOLVENT NAPHTHA, LIGHT ALIPHATIC	64742-89-8	3-7
ETHYL 3-ETHOXYPROPIONATE	763-69-9	1-5
XYLENE	1330-20-7	1-5
NITROCELLULOSE	9004-70-0	1-5
2-BUTOXYETHANOL	111-76-2	1-5
ETHYL BENZENE	100-41-4	0.5-1.5

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION 8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, immediately flush eyes with plenty of water for at least 15 minutes using an eyewash fountain. Lift upper and lower lids and rinse well under them. Get medical attention, preferably an eye specialist, as needed. If material gets into eyes, flush with water immediately for 20 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician. If symptoms develop (irritation) from airborne exposure, move to fresh air.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water for at least 15 minutes. If symptoms develop (such as irritation or rash), consult a physician or get medical attention. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, call 911 immediately.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): -156 TOC LOWER EXPLOSIVE LIMIT (%): 1.0 UPPER EXPLOSIVE LIMIT (%): 12.

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Spray, Dry Sand, Dry Powder
 Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition. Flammable liquid. Vapors may form an ignitable mixture with air. Vapors are heavier than air and may flow along surfaces, may travel/spread along the floors/ground, or can be moved by ventilation to a distant ignition source and flashback. Do not use a cutting or welding torch near or on a drum of product, because vapors may ignite explosively, even if the drum is empty and contains only product residue. Fire may ensue when product comes in contact with strong oxidizers. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Peroxides of unknown stability and that are explosive may form. In empty containers, a component's residue may form vapors that may explode. A component burns with intense heat and rapidly.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray. Firefighters should use a safe distance while fighting the fire.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of

ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Soak up with vermiculite or inert absorbent material and dispose of as hazardous waste.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Use only in well ventilated areas. Open doors and windows. Use safety precautions with empty containers. Empty containers may contain hazardous materials (product residues) in the form of solids, liquids, or vapors. Preparation may charge electrostatically: always use grounding leads when transferring from one container to another. Do not drill, solder, pressurize, grind, cut, weld, or braze empty container. Do not expose product or empty containers to sparks, heat, hot surfaces, open flame, static electricity, or any source of ignition. Do not slide or drop container. Protect container against physical damage.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place. Protect material from direct sunlight. Keep product and container away from incompatible material.

Section 8 - Exposure Controls / Personal Protection

<u>Component</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>
ACETONE	500 ppm	750 ppm	750 ppm	1000 ppm
2-BUTANONE (MEK)	200 ppm	300 ppm	200 ppm	300 ppm
PROPANE	1000 ppm	N.E.	1000 ppm	N.E.
ISOPROPANOL ANHYDROUS	400 ppm	500 ppm	400 ppm	500 ppm
METHYL ISOBUTYL KETONE	50 ppm	75 ppm	50 ppm	75 ppm
SOLVENT NAPHTHA, LIGHT ALIPHATIC	300 ppm	N.E.	300 ppm	400 ppm
ETHYL 3-ETHOXYPROPIONATE	N.E.	N.E.	N.E.	N.E.
XYLENE	100 ppm	150 ppm	100 ppm	N.E.
NITROCELLULOSE	HAZARD - N.E.	HAZARD - N.E.	HAZARD - N.E.	HAZARD - N.E.
2-BUTOXYETHANOL	25 ppm	N.E.	25 ppm	N.E.
ETHYL BENZENE	100 ppm	125 ppm	100 ppm	125 ppm

Notes

ISOPROPANOL ANHYDROUS CAS# 67-63-0 in animal studies, exposure has caused fetal developmental effects and low fetal weights in non-toxic exposure levels to the mothers. It has been shown to cause fetotoxic effects at the level of exposure that was harmful to the mother. The relevance of these findings to humans is unknown. Exposure has been shown to cause kidney damage in male rats. The mechanism of toxicity that caused the kidney damage is not found in humans; therefore kidney damage from exposure is not expected to occur in humans.

ETHYL 3-ETHOXYPROPIONATE CAS# 763-69-9 - Manufacturer recommends a workplace exposure limit of 50 ppm-TWA; 100 ppm-STEL. This component has been shown to cause harm to the fetus in laboratory animals. It only caused harm at levels of overexposure that would also harm the pregnant animal. The relevance to humans is unknown. It also has been shown to cause mild, reversible liver effects in laboratory animals.

XYLENE CAS# 1330-20-7 - In animal studies, exposure has caused birth defects. The relevance to humans is unknown. It also has been shown to cause reversible effects to the liver, kidney damage, testis damage, harmful to fetuses, liver damage, hearing effects, central nervous effects, and cardiac sensitization in laboratory animals.

NITROCELLULOSE CAS# 9004-70-0 - It is on the OSHA Process Safety Management (PSM) list.

2-BUTOXYETHANOL CAS# 111-76-2 - This component has been shown to cause harm to the fetus in laboratory animals. It only caused harm at levels of overexposure that would also harm the pregnant animal. It has been shown to cause cancer in laboratory animals. The relevance to humans is unknown. It also has been shown to cause reversible kidney effects, reversible liver effects, and blood abnormalities in laboratory animals. Congestion in the spleen, liver, kidneys, and lungs resulted from acute lethal exposure in animal studies.

ETHYL BENZENE CAS# 100-41-4 - IARC Group 2B possibly carcinogenic to humans.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator that is recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) is necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below the OSHA permissible limits.

Skin Protection: Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Wear boots that are chemical-resistant.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	133 - 349	Vapor Density:	> 1 (AIR =1)
Odor:	ACETONE, METHYL ETHYL KETONE, & PROPANE	Odor Threshold:	N.D.
Appearance:	Amber liquid	Evaporation Rate:	ND
Solubility in H2O:	Insoluble		
Freeze Point:	N.D.	Specific Gravity:	0.757

Vapor Pressure, mm Hg: 81.
Physical State: Liquid in aerosol container
(See section 16 for abbreviation legend)

PH: N.A.
Viscosity: NA

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist.
Incompatibility: Material is incompatible with strong oxidizers, strong acids, strong alkalis, heat, aluminum, and salts of strong bases. Material is incompatible with strong oxidizers, reducing agents, acids (strong), alkalies (strong), chromic anhydride, chromyl alcohol, hexachloromelamine, and hydrogen peroxide. Also, incompatible with permonosulfuric acid, chloroform, chlorine compounds, potassium t-butoxide, and thioglycol. A component is incompatible with chlorinated hydrocarbons, isocyanates, ethylene oxide, amines, aldehydes, and aluminum equipment above 120 degrees (F). Material is incompatible with strong alkalis, copper, and copper alloys.
Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. Ketones, organic acids, and aldehydes may form. Product may form hydrogen cyanide, methane, aldehydes, and carboxylic acids when burned.
Hazardous Polymerization: Will not occur.
Stability: Stable under recommended storage conditions, however one of the components may form peroxides of unknown stability.

Section 11 - Toxicological Information

Product LD50: N.E. Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity. RCRA HAZARDOUS WASTE CODE U161.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Consumer Commodity	Packing Group:	NA
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	ORM-D/AEROSOL	Resp. Guide Page:	N.A.
DOT UN/NA Number:	N.A.	IATA:	YES

Section 15 - Regulatory Information

CERCLA – SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
2-BUTANONE (MEK)	78-93-3	19.7200
ISOPROPANOL ANHYDROUS	67-63-0	7.6460
METHYL ISOBUTYL KETONE	108-10-1	6.1100
XYLENE	1330-20-7	2.8739
2-BUTOXYETHANOL	111-76-2	1.8700
ETHYL BENZENE	100-41-4	0.7981

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<u>Component</u>	<u>CAS Number</u>
METHYL ISOBUTYL KETONE	108-10-1
p-XYLENE OR PARA-XYLENE	106-42-3

U.S. State Regulations: As follows –

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Component</u>	<u>CAS Number</u>
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Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Component</u>	<u>CAS Number</u>
ALKYD RESIN	UNKNOWN

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
ETHYL BENZENE	100-41-4	0.7981
BENZENE	71-43-2	0.0008
FORMALDEHYDE	50-00-0	0.0006
ETHYL ACRYLATE	140-88-5	0.0000

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
BENZENE	71-43-2	0.0008
TOLUENE	108-88-3	0.0006

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: ND

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 3 Reactivity: 0 Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 639

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 5.34

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= NA

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= NA

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <= 5.90

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 492

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 4.11

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0.88852

REASON FOR REVISION: REVISED REPORTING FORMAT IN SECTION 15

REGULATORY CODE: 15X013

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.