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: Identification Number:	27X37, CLEAR WOOD FINISH GLOSS 010	Revision Date: Print Date:	08/24/2010
Product Use/Class:	CLEAR WOOD FINISH/BRUSHING LACQUER		
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone: Emergency Phone:	(949) 474-0400 (800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid. 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. May cause irritation to the respiratory tract.

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 or damage to the conjunctiva may occur. Contact may cause excessive blinking and tear production, blurred vision, burns to the eyes, or damage to the conjunctiva may occur. Mists and vapors may cause severe eye irritation. A component may cause sensitization. May cause swelling of the conjunctiva, corneal injury, or burns to the eye.

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. Repeated or prolonged contact may cause dry skin. 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, dizziness, nausea, weakness, staggering gait, confusion, drowsiness, unconsciousness, coma, or possible death. Exposure may cause chest pain, nasal discomfort, nasal discharge, pulmonary edema, nausea, vomiting, and coughing. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness. 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. A component may cause hypotension, loss of reflexes, stupor, diarrhea, nausea, vomiting, gastrointestinal pain, and respiratory depression that may lead to death.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. 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. Lung inflammation or other lung injury may occur if isopropanol enters the lungs through vomiting or swallowing.

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. Symptoms of overexposure may occur for up to 48 hours after the original exposure occurred. 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 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 labortory 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 labortory 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. Overexposure to isopropanol has been suggested as a cause of mild and reversible liver effects in laboratory animals. **Primary Route(s) Of Entry:** Skin Contact, Inhalation, Eye Contact

Section 3 - Composition / Information On Ingredients

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Component	CAS Number	Weight % Reporting Ranges		
REFINED PETROLEUM DISTILLATE	8052-41-3	10-30		
ISOBUTYL ISOBUTYRATE	97-85-8	7-13		
SOLVENT NAPHTHA, LIGHT ALIPHATIC	64742-89-8	7-13		
METHYL n-AMYL KETONE	110-43-0	7-13		
2-BUTOXYETHANOL	111-76-2	5-10		
NITROCELLULOSE	9004-70-0	5-10		
n-BUTYL ALCOHOL	71-36-3	3-7		
XYLENE	1330-20-7	1-5		
ISOPROPANOL ANHYDROUS	67-63-0	1-5		
2-BUTOXY ETHYL ACETATE	112-07-2	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, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician. If symptoms develop (irritation) from airborne exposure, move to fresh air. Have eyes examined/treated by a physician if a burning sensation, redness, or itching develop. **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), consult a physician or get medical attention. Wash contaminated clothing thoroughly before reuse or discard. Seek medical attention if redness, a burning sensation, or itching occurs.

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, consult a physician, if necessary. Contact a physician if a cough develops. **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): 53 TCC LOWER EXPLOSIVE LIMIT (%): UPPER EXPLOSIVE LIMIT (%): N.D. N.D.

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. 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. A component may form explosive peroxides upon long-term storage. Peroxides maybe shock sensitive. 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.

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 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. Avoid processes that might generate static electrical discharge. Be careful; do not handle the container or the material inside roughly. Keep product and empty containers away from heat, hot surfaces, open flame, and other sources of ignition. Do not re-use empty containers.

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. Small quantities of peroxide may form up prolonged storage. Keep container away from incompatible material.

Section 0 - Exposure controls / Personal Protection				
Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
REFINED PETROLEUM DISTILLATE	N.E.	N.E.	N.E.	N.E.
ISOBUTYL ISOBUTYRATE	N.E.	N.E.	N.E.	N.E.
SOLVENT NAPHTHA, LIGHT	300 ppm	N.E.	300 ppm	400 ppm
ALIPHATIC				
METHYL n-AMYL KETONE	50 ppm	N.E.	100 ppm	N.E.
2-BUTOXYETHANOL	25 ppm	N.E.	25 ppm	N.E.
NITROCELLULOSE	HAZARD - N.E.	HAZARD - N.E.	HAZARD - N.E.	HAZARD - N.E.
n-BUTYL ALCOHOL	20 ppm	N.E.	50 ppm	N.E.
XYLENE	100 ppm	150 ppm	100 ppm	N.E.
ISOPROPANOL ANHYDROUS	400 ppm	500 ppm	400 ppm	500 ppm
2-BUTOXY ETHYL ACETATE	N.E.	N.E.	N.E.	N.E.
ETHYL BENZENE	100 ppm	125 ppm	100 ppm	125 ppm

Notes

ODORLESS MINERAL SPIRITS CAS# 8052-41-3 - NISOH recommends a limit of 350 mg/m3 - 8 hour TWA, 1800 mg/m3 as determined by a 15-minute sample. ISOBUTYL ISOBUTYRATE CAS# 97-85-8 - Eastman Kodak recommends an exposure limit of: 100 ppm 8 hour TWA.

2-BUTYOXYETHANOL 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.

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

n-BUTYL ALCOHOL CAS# 71-36-3, there is evidence that some hearing loss may occur from long-term repeated exposure to vapor concentrations that are greater than 50 ppm. Animal studies have shown exposure causes effects on the liver, kidney, lungs, eyes, ears (vertigo), and central nervous system. Exposure caused birth defects and is toxic to the fetus of animals at levels that are nontoxic to the pregnant animal. The animals were exposed to doses many times higher than are expected to occur during use of the component.

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.

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.

BUTYL CELLOSOVE ACETATE CAS# 112-07-2 - US. NIOSH: Pocket Guide to chemical Hazards Recommended exposure limit (REL): 5 ppm, 33 mg/m3. Eastman Chemical Company occupational exposure limit: TWA Skin Notation: 25 ppm.

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 an apron and 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):	181 - 343	Vapor Density:	Heavier than air
Odor:	ODORLESS MINERAL SPIRITS, ISOBUTYL ISOBUTYRATE, & VM& NAPHTHA SOLVENTS	Odor Threshold: P	N.D.
Appearance:	Amber liquid	Evaporation Rate:	ND

Solubility in H2O:	ND		
Freeze Point:	N.D.	Specific Gravity:	0.903
Vapor Pressure, mm Hg:	12.	PH:	N.A.
Physical State:	Liquid	Viscosity:	18-20 #3 ZAHN CUP
			SECONDS

(See section 16 for abbreviation legend)

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 halogens. A component is incompatible with oxidizing agents, strong acids, strong alkalies, amines, pigments that give an alkaline reaction, or alcohol denatured with pyridine. A component is incompatible with chlorinated hydrocarbons, acids (strong), isocyanates, alkalis, ethylene oxide, amines, aldehydes, and aluminum equipment above 120 degrees (F). Reacts with air to form peroxides. 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.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: 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. Do not weld or use a cutting torch on empty containers.

Product LC50: N.E.

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	Resp. Guide Page:	N.A.	
DOT UN/NA Number:	N.A.	IATA:	YES	
Section 15 December Information				

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311and 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

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>	CAS Number	Percent By Weight
2-BUTOXYETHANOL	111-76-2	8.9932
n-BUTYL ALCOHOL	71-36-3	4.8643
XYLENE	1330-20-7	3.9549
ISOPROPANOL ANHYDROUS	67-63-0	3.5234
2-BUTOXY ETHYL ACETATE	112-07-2	3.0468
ETHYL BENZENE	100-41-4	1.0914

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:

Component

p-XYLENE OR PARA-XYLENE

CAS Number

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.

Component ALKYD RESIN	CAS Number UNKNOWN				
Pennsylvania Righ	t-to-Know:				
	ardous ingredients are pro	esent in the product at g	reater than 3%.		
Component	č i	CAS Numbe			
ALKYD RESIN		UNKNOWN			
California Proposit	ion 65:				
Warning: The following	ingredients present in th	e product are known to	the state of California to cause Cancer:		
Component	<u>CAS Nur</u>	<u>nber</u>	Percent By Weight		
ETHYL BENZENE BENZENE	100-41-4 71-43-2		1.0914 0.0016		
or other reproductive h	azards.		the state of California to cause birth defects,		
<u>Component</u>	<u>CAS Nur</u>	<u>nber</u>	Percent By Weight		
BENZENE TOLUENE	71-43-2 108-88-3		0.0016 0.0011		
the use of the 16 head CANADIAN WHMIS Section 16 - Other Info	CLASS: B2, D1A, D2A,	D2B			
HMIS Ratings:					
Health: 2	Flammability: 3	Reactivity: 0	Personal Protection: G		
NFPA Fire Rating:	3				
NFPA Health Ratin					
NFPA Specific Haz					
NFPA Stability Rat	ing : 1				
VOLATILE ORGAN	IC COMPOUNDS, GR/	L TR : 664			
VOLATILE ORGAN	IC COMPOUNDS, LB/0	GAL: 5.54			
VOLATILE ORGAN	IC COMPOUNDS MIX	ED, GR/LTR: <= 680			
VOLATILE ORGAN	IC COMPOUNDS MIX	ED, LB/GAL: <= 5.67			
	IC COMPOUNDS, LB/I				
			RULE 443.1), GR/LTR: 664		
	VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 5.54				
	ER WEIGHT SOLIDS,				
REASON FOR REVI RATINGS	SION: REVISED REPO	RTING FORMAT IN SEC	CTION 15 AND UPDATED HMIS AND NFPA		
REGULATORY COL)F · 010				
LAYOUT CODE: A20					
	ble, N.E Not Established, N.D.	- Not Determined			
The information contai	ned on this MSDS has be	een checked and should	be accurate. However, it is the responsibility		
of the user to comply v	with all Federal, State, an	d Local laws and regulat	tions.		