



Material Safety Data Sheet

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Date Issued: March 19, 2007
Revised:

Section I - Material Identification

Product Name: DMO

Product Code: All Melamine DMO Products

Product Description: Decorative Melamine Overlay Impregnated Paper

Chemical Name: Resin Impregnated Paper **IUPAC:** N/A **CAS#:** N/A **UN#:** Not Regulated

Section II - Hazardous Ingredients

Ingredients	CAS #	Weight %	Exposure Limits
Formaldehyde	50-00-0	Below Reportable Threshold	0.3 ppm ACGIH Ceiling 0.75 ppm OSHA PEL-TWA
Methanol	67-56-1	Below Reportable Threshold	200 ppm ACGIH TLV and OSHA PEL

* 29 CFR Part 1910.1200(g) (2) (i) (C) (1), of the Occupational Safety and Health Administration (OSHA) Hazardous Communication Standard

H.M.I.S. RATINGS HEALTH - 1 FLAMMABILITY - 0 REACTIVITY - 0

Section III - Health Hazards

Effects of Over Exposure:

Contact with skin may cause irritation or rash. Eye contact may cause slight irritation or redness. Heated vapors may cause irritation of the respiratory tract.

Primary Route(s) of Entry:

Inhalation of dust or fumes.

Formaldehyde, a component of this product, is classified as an IARC (International Agency for Research on Cancer) Group I Human carcinogen (nose and pharynx) and a potential human carcinogen by U.S. agencies NTP and OSHA.

Section IV - Emergency and First Aid Procedures

Skin Contact: Wash with soap and water at once.

Eye Contact: Flush with water for 15 minutes and call a physician if irritation persists.

Inhalation: Remove to fresh air.

Ingestion: Not applicable.

In all cases if irritation persists, obtain qualified medical advice.

Section V - Fire and Explosion Hazard Data

Flashpoint: Not applicable **Auto-Ignition Temperature:** 410 degrees C. / 770 degrees F.
Extinguishing Media: Water spray, Carbon Dioxide foam or Dry Chemical, as determined by surrounding fire
Special Fire Fighting Procedures: Self- contained breathing apparatus is required.
Hazardous decomposition products may include formaldehyde and oxides of carbon, nitrogen, sodium and potassium.
Unusual Fire and Explosion Hazards: None.

Section VI - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:

Collect material and place in a closed container.

Proper PPE (personal protective equipment) should be worn per Section VIII of this MSDS.

Waste disposal method:

At this time, this material would not be considered a hazardous waste as defined under the federal RCRA regulations (40 CFR 261). However, caution should be taken as these regulations can change and state and local regulations may vary to reclassify this waste. Material should always be disposed of in accordance with federal, state, and local regulations.

For further information, contact your state or local solid waste disposal agency.

Section VII - Handling and Storage

Precautions to be taken in Handling and Storing:

Store in a cool, dry and vented space with packaging left intact until use.

Other precautions: Consult the product bulletin prior to using this product.

Section VIII - Special Protection Information

Respiratory Protection: Should be worn to prevent breathing dust or heated fumes.
Ventilation: Local exhaust and general ventilation recommended.
Protective Gloves: Suitable protective gloves should be worn to protect against skin contact and to prevent paper cuts.
Eye Protection: Safety glasses are recommended.
Other Protective Equipment: As required to prevent prolonged or repeated skin contact.

Section IX - Physical Data

Appearance and Odor:	White, Colored, or Printed Light Weight Impregnated Paper
Boiling Point:	Not Applicable
Percent Moisture Content	2-10%
Evaporation Rate:	Non-Volatile
Vapor Density:	Non-Volatile
Specific Gravity:	Not Applicable

Leachate Analysis (Wt%):

Leachate Formaldehyde:	0.00011
Leachate Methanol:	NA

Section X - Reactivity Data

Stability: Stable **Conditions to Avoid:** Warm storage and ignition sources
Incompatibility: None known **Hazardous Polymerization:** Will not occur
Hazardous Decomposition Products may include formaldehyde, and oxides of carbon, nitrogen, sodium and potassium

Section XI - Toxicological Information

When heating the paper, it will give off small amounts of volatile chemicals, primarily formaldehyde.

Permissible Exposure Levels:

Formaldehyde: OSHA has established a 0.75 ppm PEL for formaldehyde as an 8 hour TWA and a 2 ppm 15-minute STEL (Short Term Exposure Limit). OSHA has also set a 0.5 ppm action level for formaldehyde (see OSHA regulation 21 CFR 1910.1048 for specific information regarding workplace requirements). ACGIH ceiling for formaldehyde is 0.3 ppm.

Carcinogenicity: Formaldehyde, a component of this product, is classified as an IARC (International Agency for Research on Cancer) Group I Human carcinogen (nose and pharynx) and a potential human carcinogen by U.S. agencies NTP and OSHA.

Section XII: Ecological Information

No Data Available

Section XIII: Final Disposition

Material should always be disposed of in accordance with federal, state and local regulations. See Section VI for further details.

Section XIV: Transport Information

This product is not regulated.

Section XV: Regulatory Information

This product contains no hazardous ingredients above reportable thresholds as designated in the reporting requirements of 'Section 312 and 313 of the Emergency Planning and Community Right to Know Act' of 1986 (40 CFR 370 and 372).

Section XVI: Other Information

DISCLAIMER: The information and recommendations contained herein are offered as a service to our customers but are not intended to relieve the user from its responsibility to investigate and understand other pertinent sources of information and to comply with all laws and procedures applicable to the safe handling and use of these materials. The information and recommendations provided herein are believed by Arclin Surfaces, Inc. to be accurate or obtained from sources believed to be reliable. However, Arclin Surfaces, Inc. makes no warranty concerning their accuracy and Arclin Surfaces, Inc. will not be liable for claims resulting to any party's use of or reliance on information or recommendations contained herein regardless of whether it is claimed that the information or recommendations are inaccurate, incomplete or otherwise misleading.

1. Identification

Product identifier	TFL - Standard and Pigmented	
Other means of identification		
Product code	All Standard and Pigmented TFL Products	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company name	Arclin USA, LLC	
Address	1000 Holcomb Woods Parkway Suite 342 Roswell, Georgia 30076 US	
Telephone	General Information:	(877) 689-9145
E-mail	Not available.	
Emergency phone number	24 Hour Emergency:	CHEMTREC (800) 424-9300

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	Not assigned.
Hazard statement	Not assigned.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Formaldehyde	50-00-0	<0.1
Methanol	67-56-1	<1.0

Composition comments This product is a paper coated or saturated with formaldehyde based resins.

4. First-aid measures

Inhalation	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Skin contact	Wash with soap and water. Get medical attention if symptoms occur.
Eye contact	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
Ingestion	Seek medical advice.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation. The product contains a small impurity of formaldehyde: Formaldehyde is a known skin and respiratory sensitizer.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.
Exposure may aggravate pre-existing skin or respiratory disorders.

5. Fire-fighting measures**Suitable extinguishing media**

Water. Water fog. Foam. Dry chemical. Carbon dioxide (CO₂).

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed such as: Formaldehyde. Carbon oxides. Nitrogen oxides. Potassium oxides. Sodium oxides.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

High concentrations of dust may form explosive mixture with air.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet.

Methods and materials for containment and cleaning up

Sweep or scoop up and remove.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage**Precautions for safe handling**

Observe good industrial hygiene practices. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store in a cool place. Store away from incompatible materials (See Section 10).

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Components	Type	Value
Formaldehyde (CAS 50-00-0)	STEL	2 ppm
	TWA	0.75 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Methanol (CAS 67-56-1)	PEL	260 mg/m ³ 200 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Formaldehyde (CAS 50-00-0)	Ceiling	0.1 ppm
	TWA	0.016 ppm
Methanol (CAS 67-56-1)	STEL	325 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
	TWA	250 ppm 260 mg/m ³ 200 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Normal eye protection practices should be used. If dusty conditions exist, chemical goggles are recommended.

Skin protection

Hand protection Regular work gloves.

Other Wear apron or protective clothing in case of contact. If contact with forearms is likely wear gauntlet style gloves.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Paper.
Physical state	Solid.
Form	Paper.
Color	Varies.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.

Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	770 °F (410 °C)
Decomposition temperature	Not available.
Viscosity	Not applicable.
Other information	
Percent volatile	2 - 10 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under the prescribed storage conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Elevated temperatures. Protect against direct sunlight.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	At elevated temperatures: Formaldehyde.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Not relevant at normal room temperatures. When heated, harmful vapors may be formed.
Skin contact	No adverse effects due to skin contact are expected. May cause skin sensitization in hypersensitive individuals.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	No harmful effects expected in amounts likely to be ingested by accident.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	No adverse effects are expected.
Skin corrosion/irritation	Not assigned.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not assigned.
Skin sensitization	Not assigned. This material has a low potential to cause allergic skin reactions; however, cases of human skin sensitization have been reported.

Germ cell mutagenicity Not assigned.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not assigned.

Specific target organ toxicity - single exposure Not assigned.

Specific target organ toxicity - repeated exposure Not assigned.

Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.

Further information The product contains a small impurity of formaldehyde: Formaldehyde is a known skin and respiratory sensitizer.

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.
Persistence and degradability No data available.
Bioaccumulative potential Not available.
Mobility in soil Not available.
Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Do not discharge into drains, water courses or onto the ground.
Local disposal regulations Dispose in accordance with all applicable regulations.
Hazardous waste code When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.
Waste from residues / unused products Recover and recycle, if practical.
Contaminated packaging Not applicable.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Formaldehyde (CAS 50-00-0)

Methanol (CAS 67-56-1)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 22-September-2015

Revision date -

Version # 01

Further information The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

HMIS® ratings Health: 1
Flammability: 1
Physical hazard: 0

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