SAFETY DATA SHEET

F**ILE NO.:** Skived PTFE
NAME OF PRODUCT: Skived PTFE
MSDS DATE: 04/06/15

SECTION 1: IDENTIFICATION

1.1. Product Identifier: Skived PTFE

Product Identification Numbers : DW 2000, DW 202, DW 220, DW 502

1.2 . Recommended Use and Restriction on use

Recommended Use: PTFE Film used in industrial, mechanical and electrical applications

1.3 . Supplier's Details

MANUFACTURER: DeWAL Industries, Inc
ADDRESS: 15 Ray Trainor Drive, Saunderstown, RI 02882
TELEPHONE: 401-789-9736

1.4. Emergency Phone: 401-789-9736

SECTION 2: HAZARD IDENTIFICATION

2.1. Hazard Classification: Not classified as hazardous to OSHA Hazard Communication Standard, 29 CFR 1910.1200

2.2. Label Elements
Signal Word N/A

Symbols N/A

Pictograms N/A

2.3. Hazards not otherwise classified: None known
Vapors produced during sintering may be hazardous if inhaled. Eye, nose, throat and lung irritation could occur from vapors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.	% by Wt
Polytetrafluorethylene	9002-84-0	100

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

EYES: If film gets in eyes, flush with cold water, seek medical attention.

SKIN: Not a likely medical issue, unless cut by the film, then treat as you would a normal cut.

INGESTION: Not a likely medical issue

INHALATION: Remove person to fresh air.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 . Suitable extinguishing media
In case of fire: Use a suitable firefighting agent for ordinary combustible materials, such as water or foam.

5.2. Special hazards arising from the substance
Exposure to extreme heat may give rise to thermal decomposition

5.3. Special protective actions for fire fighters
When conditions are severe and thermal decomposition is possible, wear full protective clothing, including helmet, self-contained positive pressure breathing apparatus, bunker coat and pants, bands around arms and legs, full face mask and protective covering for any exposed areas of the head.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate area with fresh air. Observe cautions from other sections of SDS

6.2. Environmental precautions
None known

6.3. Methods and material for containment and clean up
Collect any material, put in normal trash

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
When working with this film, it is recommended that you wash your hands thoroughly before smoking, dust created during processing can get into tobacco products and possibly lead to hazardous decomposition products.

7.2. Conditions for safe storage
Use normal storage procedures

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Polytetrafluoroethylene	9002-84-0	CMRG	TWA(as respirable dust):5 mg/m³;	

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure Controls

8.2.1. Engineering Controls
For any situation where the material might be exposed to extreme overheating, use appropriate local exhaust ventilation to reduce any possible thermal decomposition products. If local ventilation is not possible, use respiratory protection equipment

8.2.2. Personal protective equipment (PPE)

Eye / Face Protection	**It is always recommended to wear safety glasses in any industrial environment**
Skin / hand protection	**Gloves would be recommended to help prevent abrasions and cuts from handling the film**

Respiratory protection	**Only needed in the event of a fire or if the material is exposed to high temperatures like those listed in 8.2.1**
Thermal hazards	**Unlikely exposure.**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Form:	**Solid**
Specific Physical Form:	**Film**
Odor, color:	**Odorless, white film**
pH	**Not Applicable**
Melting Point:	**320 - 345° C**
Boiling Point:	**Not Applicable**
Flash Point:	**No Flash Point**
Evaporation Rate:	**Not Applicable**
Flammability (solid, gas)	**Not Classified**
Flammable Limits (LEL)	**Not Applicable**
Flammable Limits (UEL)	**Not Applicable**
Vapor Pressure	**Not Applicable**
Vapor Density	**Not Applicable**
Density	**2.14 – 2.18 g/cm^3**
Specific Gravity	**2.14 – 2.18 (Ref Std: Water = 1)**
Solubility in Water	**No Data Available**
Auto ignition Temperature	**No Data Available**
Decomposition Temperature	**No Data Available**
Viscosity	**Not Applicable**
Volatile Organic Compounds	**Not Applicable**
Percent Volatile	**Not Applicable**
VOC Less H_2O & Element Solvent	**Not Applicable**

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	**This material may be reactive with certain agents under certain conditions – see below**
10.2. Chemical Stability	**Stable**
10.3. Possibility of hazardous reactions	**Hazardous polymerization will not occur**
10.4. Conditions to Avoid	**Not Determined**
10.5. Incompatible materials	**Alkali and Alkaline earth metals**

10.6. Hazardous decomposition products

Substance	**Condition**
Carbonyl Fluoride	**At Elevated Temperatures – above 380 C**
Carbon Monoxide	**At Elevated Temperatures – above 380 C**
Carbon Dioxide	**At Elevated Temperatures – above 380 C**
Hydrogen Fluoride	**At Elevated Temperatures – above 380 C**
Perfluoroisobutylene (PFIB)	**At Elevated Temperatures – above 380 C**
Toxic Vapor, Gas, Particulate	**At Elevated Temperatures – above 380 C**

If this product is exposed to extreme conditions of heat from misuse or equipment failure, toxic decomposition can occur.

SECTION 11: TOXICOLOGICAL INFORMATION

This information may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and / or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on information on the components, this material may produce the following health effects:

Inhalation:
Not a Likely source of exposure

However, if overheated, Polymer Fume Fever could occur. Signs/Symptoms may include chest pain, shortness of breath, cough, malaise, muscle aches, increased heart rate, fever, chills, sweats, nausea and headache

Skin Contact:
Mechanical Skin irritation: Abrasion or cuts from film handling

Eye Contact:

Not a likely source of exposure

Ingestion:

Not a likely source of exposure

Toxicological Data

Acute Toxicity

Name	**Route**	**Value**
Overall Product	Ingestion	No Data Available
Polytetrafluoroethylene	Dermal	LD50 estimated to be > 5000mg/kg
Polytetrafluoroethylene	Ingestion	LD50 estimated to be >5000mg/kg

Skin Irritation

Polytetrafluoroethylene	No Significant Irritation

Serious Eye Irritation

Polytetrafluoroethylene	No Significant Irritation

Skin Sensation

Polytetrafluoroethylene	Not Sensitizing

Respiratory Sensation

Carcinogenicity	Insufficient Data
Reproductive Toxicity	Insufficient Data
Target Organs	Insufficient Data

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: **These products are chemically unreactive, non-toxic, non-water soluble and non-biodegradable.**

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Disposal Methods:

Dispose of in accordance with local/state/ federal and international regulations

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS: **N/A**
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS: **N/A**
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION
PROPER SHIPPING NAME:
HAZARD CLASS: **N/A**
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 15: REGULATORY INFORMATION

15.1. U.S. FEDERAL REGULATIONS - TSCA (TOXIC SUBSTANCE CONTROL ACT): This product is in compliance requirements of TSCA

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: Fire (no) Pressure (no) Reactivity (no) Immediate (no) Delayed (no)

313 REPORTABLE INGREDIENTS: None

15.2. STATE REGULATIONS: In compliance with State Regulations

INTERNATIONAL REGULATIONS:

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, CFR 1910.1200

SECTION 16: OTHER INFORMATION

Issue Date: **03/06/2015**
Supersedes Date: **12/04/2013**

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FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the DeWAL product is fit for a particular purpose and suitable for user's method of use of application. Given the variety of factors that can affect the use and application of a DeWAL product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the DeWAL product to determine whether it is fit for a particular user's method of use or application.