

Material Safety Data Sheet



FK 710 Mold Release Sheets

1. Product and company identification

Product name	: FK 710 Mold Release Sheets
Code	: TX9411, TX9412
Material uses	: Mold release.
Supplier/Manufacturer	: ITW Texwipe 300 B Route 17 South Mahwah, NJ, USA, 07430 Tel : 1-(201) 684-1800 Fax : 1-(201) 684-1801 Website : www.texwipe.com
Responsible name	: Atrion Regulatory Services, Inc.
In case of emergency	: CHEMTREC International: (703) 527-3887

2. Hazards identification

Physical state	: Pre-Wetted Sheets.
Odor	: Mild solvent.
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview	: WARNING ! FLAMMABLE SOLID. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not get in eyes. Avoid contact with skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Inhalation	: Irritating to respiratory system.
Ingestion	: No known significant effects or critical hazards.
Skin	: Irritating to skin. May be harmful if absorbed through skin.
Eyes	: Irritating to eyes.
Potential chronic health effects	
Chronic effects	: Contains material that can cause target organ damage.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	: Contains material which causes damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, nose/sinuses, throat.
Over-exposure signs/symptoms	

2. Hazards identification

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:
irritation
redness
- Eyes** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Medical conditions aggravated by over-exposure** : Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

See toxicological information (section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Naphtha (petroleum), hydrotreated heavy	64742-48-9	60 - 100
Dibutyl ether	142-96-1	10 - 30
Octane	111-65-9	1 - 5

Canada

Name	CAS number	%
Naphtha (petroleum), hydrotreated heavy	64742-48-9	60 - 100
Dibutyl ether	142-96-1	10 - 30
Octane	111-65-9	1 - 5

Mexico

Name	UN number	IDLH	Classification				CAS number	%
			H	F	R	Special		
Naphtha (petroleum), hydrotreated heavy	UN1268	-	0	1	0	64742-48-9	60 - 100	
Dibutyl ether	UN1149	-	1	2	0	142-96-1	10 - 30	
Octane	UN1262	1000 ppm	1	3	0	111-65-9	1 - 5	

Final product is comprised of solid cloth media that is saturated with the above components. Fill volume is controlled to ensure that no free liquid is present in the final product packaging.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

- Flammability of the product** : Flammable.
- Extinguishing media**
- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : Use suitable protective equipment. Eliminate all ignition sources.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill** : Place spilled material in an appropriate container for disposal.

7 . Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. Wash thoroughly after handling.
- Storage** : Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8 . Exposure controls/personal protection

United States

Product name

Naphtha (petroleum), hydrotreated heavy

Octane

Exposure limits

ACGIH TLV (United States).

TWA: 300 ppm 8 hour(s).

ACGIH TLV (United States, 1/2006).

TWA: 300 ppm 8 hour(s).

NIOSH REL (United States, 12/2001).

CEIL: 1800 mg/m³ 15 minute(s).

TWA: 350 mg/m³ 10 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 2350 mg/m³ 8 hour(s).

OSHA PEL 1989 (United States, 3/1989).

STEL: 1800 mg/m³ 15 minute(s).

TWA: 1450 mg/m³ 8 hour(s).

Canada

Product name

Naphtha (petroleum), hydrotreated heavy

Octane

Exposure limits

ACGIH TLV (United States).

TWA: 300 ppm 8 hour(s).

ACGIH TLV (United States, 1/2006).

TWA: 300 ppm 8 hour(s).

Mexico

Product name

Naphtha (petroleum), hydrotreated heavy

Octane

Exposure limits

ACGIH TLV (United States).

TWA: 300 ppm 8 hour(s).

NOM-010-STPS (Mexico, 9/2000).

LMPE-CT: 1800 mg/m³ 15 minute(s).

LMPE-PPT: 1450 mg/m³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

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.

Personal protection

Eyes

: Safety glasses.

Skin

: Lab coat.

Respiratory

: A respirator is not needed under normal and intended conditions of use.

Hands

: Natural rubber (latex).

8 . Exposure controls/personal protection

Personal protective equipment (Pictograms) :



HMIS Code/Personal protective equipment : B

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

Physical state : Pre-Wetted Sheets.
Flash point : Closed cup: 31°C (87.8°F) [Pensky-Martens.]
Auto-ignition temperature : >200°C (>392°F)
Color : Colorless.
Odor : Mild solvent.
Boiling/condensation point : >112°C (>233.6°F)
Relative density : 0.754
VOC : 754 (g/l).
Solubility : Insoluble.

10 . Stability and reactivity

Stability : The product is stable.
Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Conditions of reactivity : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
 Slightly flammable in the presence of the following materials or conditions: shocks and mechanical impacts.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Dibutyl ether	Rat	>3 g/kg	LD50 Dermal	-
	Rabbit	1970 mg/kg	LD50 Dermal	-
	Rat	500 mg/kg	LD50 Intraperitoneal	-
	Rat	3730 mg/kg	LD50 Oral	-
	Rat	4600 mg/kg	LD50 Parenteral	-
	Rat	650 mg/kg	LD50 Subcutaneous	-

Inhalation : Irritating to respiratory system.

11 . Toxicological information

- Ingestion** : No known significant effects or critical hazards.
Skin : Irritating to skin. May be harmful if absorbed through skin.
Eyes : Irritating to eyes.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
Dibutyl ether	Mortality	Fish	96 hours	Acute LC50 28.2 mg/L
	Mortality	Fish	96 hours	Acute LC50 10 mg/L

Other adverse effects : No known significant effects or critical hazards.

13 . Disposal considerations





Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and 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

AERG : 133

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	ORM-D	-	-		-
TDG Classification	UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Dibutyl ether)	4.1	II		-
Mexico Classification	UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Dibutyl ether)	4.1	II		-
IMDG Class	UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Dibutyl ether)	4.1	II		-

14 . Transport information

IATA-DGR Class	UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Dibutyl ether)	4.1	II		-
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PG* : Packing group

15 . Regulatory information

United States

HCS Classification : Flammable liquid
Irritating material
Target organ effects

U.S. Federal regulations : **United States inventory (TSCA 8b)**: All components are listed or exempted.
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: Dibutyl ether; Octane
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Dibutyl ether: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;
Octane: Fire 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: No products were found.

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 : **Connecticut Carcinogen Reporting**: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
Louisiana Reporting: None of the components are listed.
Louisiana Spill: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: The following components are listed: Dibutyl ether; Octane
Michigan Critical Material: None of the components are listed.
Minnesota Hazardous Substances: None of the components are listed.
New Jersey Hazardous Substances: The following components are listed: Octane
New Jersey Spill: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New York Acutely Hazardous Substances: None of the components are listed.
New York Toxic Chemical Release Reporting: None of the components are listed.
Pennsylvania RTK Hazardous Substances: The following components are listed:
Dibutyl ether; Octane
Rhode Island Hazardous Substances: None of the components are listed.

California Prop. 65

No products were found.

Canada

WHMIS (Canada) : Class B-4: Flammable solid.
Class D-2B: Material causing other toxic effects (Toxic).

15 . Regulatory information



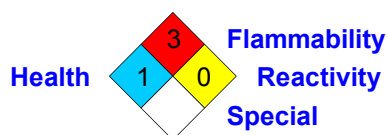
Canadian lists : **CEPA Toxic substances:** None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: The following components are listed: Heptane
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification :



International regulations

International lists : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

Label requirements : FLAMMABLE SOLID. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.) :

Health	*	1
Fire hazard		3
Physical Hazard		0
Personal protection		B

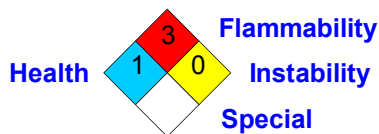
HAZARD RATINGS

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

See section 8 for more detailed information on personal protection.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :



16 . Other information

References	: ANSI Z400.5, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.
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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.