

Material Safety Data Sheet



TexPure[®]

1 . Product and company identification

| | |
|-----------------------|--|
| Product name | : TexPure [®] |
| Code | : TX160 |
| Material uses | : ITW Texwipe [®] manufactures Cleanroom consumable products utilizing natural and/or synthetic based substrates and chemicals. |
| 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 |
| In case of emergency | : CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887 |
| MSDS authored by: | : Kemika XXI Inc. + 1-450-435-7475 01/25/2006 |

2 . Hazards identification

| | |
|--|---|
| Physical state | : Liquid. (Clear.) |
| Odor | : Mild ether. |
| Color | : Colorless. |
| Hazard status | : This material is classified hazardous under OSHA regulations in the United States, the WHMIS Controlled Product Regulation in Canada and the NOM-018-STPS-2000 in Mexico. |
| Emergency overview | : WARNING ! CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: CENTRAL NERVOUS SYSTEM. COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FIRE. Avoid contact with skin and clothing. Avoid breathing vapor or mist. Keep away from heat, sparks and flame. Use only with adequate ventilation. Wash thoroughly after handling. |
| Routes of entry | : Dermal contact. Eye contact. Inhalation. Ingestion. |
| Potential acute health effects | |
| Eyes | : Irritating to eyes. |
| Skin | : Moderately irritating to the skin. |
| Inhalation | : Irritating to respiratory system. |
| Ingestion | : No known significant effects or critical hazards. |
| Potential chronic health effects | : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available. |
| 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 | % |
|---------------------------------|------------|---------|
| Dipropylene Glycol Methyl Ether | 34590-94-8 | 40 - 60 |
| 3-Butoxypropan-2-ol | 5131-66-8 | 40 - 60 |

Canada

| Name | CAS number | % |
|---------------------------------|------------|---------|
| Dipropylene Glycol Methyl Ether | 34590-94-8 | 40 - 60 |
| 3-Butoxypropan-2-ol | 5131-66-8 | 40 - 60 |

Mexico

Classification

| Name | UN number | IDLH | H | F | R | Special | CAS number | % |
|---------------------------------|----------------|---------|---|---|---|---------|------------|---------|
| 3-Butoxypropan-2-ol | UN1993 | - | 1 | 2 | 0 | | 5131-66-8 | 40 - 60 |
| Dipropylene Glycol Methyl Ether | Not regulated. | 600 ppm | 0 | 1 | 0 | | 34590-94-8 | 40 - 60 |

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.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

5 . Fire-fighting measures

- Flammability of the product** : Combustible.
- Products of combustion** : These products are carbon oxides.
- Extinguishing media**
 - Suitable** : Use dry chemical, carbon dioxide, water spray (fog) or foam.
 - Not suitable** : Do not use water jet.
- Special exposure hazards** : Combustible liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- 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.
- Methods for cleaning up** : 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

Dipropylene Glycol Methyl Ether

Exposure limits

ACGIH TLV (United States, 1/2005). Skin

STEL: 909 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 606 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

NIOSH REL (United States, 12/2001). Skin

STEL: 900 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 600 mg/m³ 10 hour(s). Form: All forms.

TWA: 100 ppm 10 hour(s). Form: All forms.

OSHA PEL (United States, 8/1997). Skin

TWA: 600 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms.

Canada

Product name

Dipropylene Glycol Methyl Ether

Exposure limits

ACGIH TLV (Canada, 1/2005). Skin

STEL: 909 mg/m³ 15 minute(s). Form: All forms.

STEL: 150 ppm 15 minute(s). Form: All forms.

TWA: 606 mg/m³ 8 hour(s). Form: All forms.

TWA: 100 ppm 8 hour(s). Form: All forms

Mexico

Product name

Dipropylene Glycol Methyl Ether

Exposure limits

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

CCT: 900 mg/m³ 15 minute(s). Form: All forms

CCT: 150 ppm 15 minute(s). Form: All forms

CPT: 60 mg/m³ 8 hour(s). Form: All forms

CPT: 100 ppm 8 hour(s). Form: All forms

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, 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. Use explosion-proof ventilation equipment.

Personal protection

Eyes

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Recommended: Safety glasses.

Skin

- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Body: Recommended: Lab coat.

Respiratory

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

Hands

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this necessary. Recommended: Rubber gloves.



Personal protection in case of a large spill

- : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

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.

9 . Physical and chemical properties

Physical state

- : Liquid. (Clear.)

Flash point

- : Closed cup: 62°C (143.6°F).(Pensky-Martens.)

Flammable limits

- : The greatest known range is Lower: 1.1% Upper: 14% (Dipropylene Glycol Methyl Ether)

Color

- : Colorless.

Odor

- : Mild ether.

Boiling/condensation point

- : Weighted average: 189.54°C (373.2°F)

Melting/freezing point

- : Weighted average: -91.39°C (-132.5°F)

Relative density

- : The only known value is 0.95 (Water = 1) (Dipropylene Glycol Methyl Ether).

Vapor pressure

- : The highest known value is 0.08 kPa (0.6 mm Hg) (at 20°C) (3-Butoxypropan-2-ol).

Vapor density

- : Weighted average: 4.84 (Air = 1)

Evaporation rate

- : 0.02 (Dipropylene Glycol Methyl Ether) compared with Butyl acetate.

Solubility

- : Partially soluble in cold water, hot water.

10 . Stability and reactivity

Stability and reactivity

- : The product is stable.

Incompatibility with various substances

- : Reactive with oxidizing materials.

Hazardous polymerization

- : Will not occur.

Conditions of reactivity

- : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

11 .Toxicological information

Toxicity data

| Product/ingredient name | Test | Result | Route | Species |
|-------------------------|------|-------------|--------|---------|
| 3-Butoxypropan-2-ol | LD50 | 3300 mg/kg | Oral | Rat |
| | LD50 | 3100 mg/kg | Dermal | Rabbit |
| | LD50 | >1400 mg/kg | Dermal | Rat |

Acute Effects

| | |
|----------------------------------|--|
| Eyes | : Irritating to eyes. |
| Skin | : Moderately irritating to the skin. |
| Inhalation | : Irritating to respiratory system. |
| Ingestion | : No known significant effects or critical hazards. |
| Potential chronic health effects | : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available. |
| Target organs | : Contains material which may cause damage to the following organs: central nervous system (CNS). |

12 . Ecological information

| | |
|--|---|
| Environmental precautions | : No known significant effects or critical hazards. |
| Products of degradation | : These products are carbon oxides and water. |
| Toxicity of the products of biodegradation | : The products of degradation are less toxic than the product itself. |

13 . Disposal considerations

| | |
|----------------|--|
| Waste disposal | : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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. |
|----------------|--|

14 . Transport information

| | | | | | |
|---------------------------------|--|-------|----------------|-----|-------|
| NAERG | : 128 | | | | |
| Regulatory information | Proper shipping name | Class | UN number | PG | Label |
| UN / IMDG / IATA Classification | - | - | Not regulated. | - | |
| DOT Classification | COMBUSTIBLE LIQUIDS, N.O.S. (Dipropylene 3 Glycol Methyl Ether, 3-Butoxypropan-2-ol) | | NA1993 | III | |
| TDG Classification | - | - | Not regulated. | - | |

15 . Regulatory information

United States

HCS Classification

: Combustible liquid
Irritating material

U.S. Federal regulations

: TSCA 4(a) final test rules: Dipropylene Glycol Methyl Ether
TSCA 8(a) PAIR: Dipropylene Glycol Methyl Ether
TSCA 8(b) inventory: All components listed.
TSCA 8(d) H and S data reporting: 3-Butoxypropan-2-ol: 1994
TSCA 12(b) one-time export: Dipropylene Glycol Methyl Ether
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: Dipropylene Glycol Methyl Ether
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Dipropylene Glycol Methyl Ether: Fire hazard, Immediate (acute) health 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 : Pennsylvania RTK: Dipropylene Glycol Methyl Ether: (generic environmental hazard)
Massachusetts RTK: Dipropylene Glycol Methyl Ether
New Jersey: Dipropylene Glycol Methyl Ether
California prop. 65: No products were found.

Canada

WHMIS (Canada)

: Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Class D-2B: Material causing other toxic effects (Toxic).



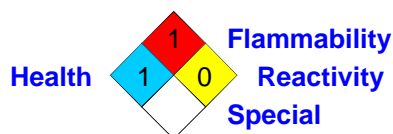
DSL : All components listed.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Mexico

Classification

:



HAZARD RATINGS

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

International lists

: All components listed are listed on major international inventories or exempted from being listed in Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan (METI/MOL), Philippines (RA6969).

16 . Other information

Label requirements (U.S.A.) : CAUSES RESPIRATORY TRACT AND EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS:
CENTRAL NERVOUS SYSTEM.
COMBUSTIBLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FIRE.

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

HMIS RATING

| | | |
|---------------------|---|---|
| Health | * | 1 |
| Fire hazard | | 1 |
| Physical Hazard | | 0 |
| Personal protection | | C |

HAZARD RATINGS

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

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



References

: ANSI Z400.1, 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. Brazil NBR 14725:2001.

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Version : 1

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.