E I DUPONT DE NEMOURS & CO INC

ENGINEERING POLYMERS, CHESTNUT RUN PLAZA, PO BOX 80713, WILMINGTON DE 19880

101(r9)(f1), 101F(r9)(f1), 101L(r9)(f1), E101(r9)(f1), E101L(r9)(f1)

Polyamide 66 (PA66), "Zytel", furnished as pellets

	Min Thk	Flame			RTI	RTI	RTI
Color	(mm)	Class	HWI	HAI	Elec	Imp	Str
ALL	0.71	V-2	4	0	130	75	85
	1.5	V-2	3	0	130	75	85
	3.0	V-2	2	0	130	75	85
	6.0	V-2	2	0	130	75	85
	Comparative Tracking Index (CT	1): O			Dimensiona	al Stability (%): -	
High-1	√oltage Arc Tracking Rate (HVTR	R): O		High Volt,	Low Current Arc	Resis (D495): 6	
	Dielectric Strength (kV/mm	i): 13		V	olume Resistivity (10 [×] ohm-cm) : 1	4

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

NOTE - (1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZYT" for Zytel or "MIN" for Minlon or "ZEN" for Zenite or "DEL" for Delrin or "CRA" for Crastin or "RYN" for Rynite or "THX" for Thermx or "ETPV" for ETPV grades.

r9 - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics for ALL colors down to 0.71mm. For thickness 0.40mm to 0.70mm the same basic material characteristics exist with the exception of generic RTIs for all properties and Regrind exceeding 25% is limited to V-2 Flammability for WT, RD, BK.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1996-07-29 Last Revised: 2010-07-27

Underwriters Laboratories Inc®





Version 2.0 Revision Date 2010/09/28

Document no. 130000022400

This SDS adheres to the standards and regulatory requirements of China and may not meet the regulatory requirements in other countries.

Section 1 - Chemical and Enterprise Identification

Chinese name Product name in English	ZYTEL [®] 101F NC010 nylon resin ZYTEL [®] 101F NC010 nylon resin	
Manufacturer or supplier's Company	iils Du Pont China Holding Co., Ltd	
Street address	China, Shanghai, 399 KeYuan Road, Bldg 11, Zhangjiang Hi-Tech Park, I New District 201203	Pudong
Telephone	86 21 3862 2888	
Telefax	86 21 3862 2889	
Emergency telephone number	86 532 8388 9090	

Recommended use of the chemical and restriction on use

No information available.

Section 2 - Hazard Identification

GHS Hazard Category

Not a dangerous substance according to GHS.

Main Symptom and Emergency Summary After Contact

No information available.

Section 3 - Ingredients/Composition Information

Chemical nature : Mixture

Components

Chemical Name	CAS-No.	Concentration
Polyhexamethylenediamine adipate	32131-17-2	>98%
Lubricants, stabilizers		<2%

Section 4 - First-aid Measures

Inhalation	:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin contact	:	The material is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Obtain medical treatment for



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		thermal burn.
Eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	:	No specific intervention is indicated. Consult a physician if necessary.
Most important symptoms/effects, acute and delayed	:	No information available.
Protection of first-aiders	:	No information available.
Notes to physician	:	No information available.

Section 5 - Fire-fighting Measures

Suitable extinguishing media	:	Water, Foam, Dry chemical, Carbon dioxide (CO2)
Specific hazards	:	Combustible . Large molten masses may ignite spontaneously in air. Water quenching is good practice. Minimize the generation and accumulation of dust. Failure or malfunction of temperature control systems on processing equipment, such as extruders, may create explosion hazards. Hazardous combustion products may include: (see also section 10) Carbon monoxide, Carbon dioxide
Specific fire fighting methods and special protective equipment for fire fighters	:	Wear self-contained breathing apparatus and protective suit. Evacuate personnel and keep upwind of fire.

Section 6 - Leak Emergency Treatment

Protective measures, devices and emergency treatment procedure for workers	:	Spilled material is a slipping hazard.
Environmental protection measures	:	Do not discharge to streams, ponds, lakes or sewers.
Collection of leaking materials, removal method and materials used for disposal	:	Sweep up to prevent slipping hazard.
Prevention of secondary hazards	:	No information available.



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Section 7 - Operation Handling and Storage

Operation Handling Technical measures/Precautions	:	Wash hands thoroughly after handling. Minimize the generation and accumulation of dust. Do not breathe dust. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated.
Precautions for safe handling	:	No information available.
Hygiene measures	:	No information available.
Storage		

Suitable storage	:	Store in a cool, dry place. Keep container closed to prevent contamination. Keep
conditions		in an area equipped with sprinklers.

Section 8 - Exposure Control and Personal Protection

Engineering controls : General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits. Use local exhaust to completely remove vapors and fumes liberated during hot processing from the work area. See Bulletin "Proper Use of Local Exhaust Ventilation During Processing of Plastics".

Chemical Name	Occupational	Exposure Limits	Regulation
Dust (inhalable and respirable fraction)	TWA	10 mg/m3 (Inhalable particles.)	US. ACGIH Threshold Limit Values
	TWA	3 mg/m3 (Respirable particles.)	US. ACGIH Threshold Limit Values
	TWA	8 mg/m3 (Total dust.)	Occupational Exposure Limit for Hazardous Agents in the Workplace

Biological occupational exposure limits	No information available.		
Personal protective equipment	t i i i i i i i i i i i i i i i i i i i		
Respiratory protection	: A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer. Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.		
Hand protection	: Wear leather or cotton gloves when grinding, sawing, routing, drilling or		



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	sanding.	
	When handling hot material, use heat resistant gloves.	
Eye protection :	Wear safety glasses with side shields. Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material. A full-face mask respirator provides protection from eye irritation.	
Skin protection :	If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.	

Section 9 - Physical and Chemical Properties

Appearance (Physical state, form, colour, etc.)

Physical state	: solid
Form	: pellets
Colour	: natural
Odour	: none
pH (specifed concentration)	: no data available
Melting point/freezing point	
Melting point/range	: > 200 °C
Boiling point, initial boiling p	oint and boiling range
no data available	
Flash point	: not applicable
Decomposition temperature	: no data available
Autoignition temperature	: no data available
Explosion limits	
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Vapour density	: no data available
Density	
Relative density	: >1



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Solubility(ies)

Water solubility	: insoluble
Solubility in other solvents	: no data available
Partition coefficient: n- octanol/water	: no data available

Section 10 - Stability and Reactivity

Stability	:	Stable at normal temperatures and storage conditions.
Possible hazardous reactions under specific conditions	:	Polymerization will not occur.
Conditions to avoid	:	Temperature: > 340 °C Avoid prolonged exposure at or above the recommended processing temperatures.
Materials to avoid	:	Strong acids, Strong bases, Strong oxidizing agents
Hazardous decomposition	:	Hazardous thermal decomposition products may include:
products		Aldehydes, nitrogen oxides (NOx), traces of hydrogen cyanide, Ammonia Carbon monoxide, Carbon dioxide, Cyclopentanone

Section 11 - Toxicological Information

Acute toxicity	:	Polyhexamethylenediamine adipate:
		Oral: LD50/rat : > 7,500 mg/kg
Skin corrosion/irritation	:	Polyhexamethylenediamine adipate: Species: human non-irritant
Eye irritation/corrosion	:	no data available
Respiratory or skin sensitization	:	Polyhexamethylenediamine adipate:
Concilization		Species: human Not a skin sensitizer.
Germ cell mutagenicity	:	no data available
Carcinogenicity	:	no data available



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Toxicity for reproduction	:	no data available
Specific Target Organs Toxicity (Single/Repeated)	:	no data available
Aspiration hazard	:	no data available
Other	:	ZYTEL [®] 101F NC010 nylon resin:
		No data is available on the product itself. For additional toxicity data, write to the company address or call the non- emergency number shown in Section 1.

Section 12 - Ecological Information

Ecotoxicity effects Toxicity to fish	: no data available
Persistence and degradation	: no data available
Bioaccumulation	: no data available
Mobility in soil	: no data available
Other adverse effects	: ZYTEL [®] 101F NC010 nylon resin:
	No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

Section 13 - Waste Disposal

Waste disposal methods : Preferred options for disposal are recycling, incineration with energy recovery, and landfill. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Section 14 - Transport Information

Not classified as dangerous in the meaning of transport regulations.

Section 15 - Regulatory Information

not regulated



ZYTEL® 101F NC010 nylon resin

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Section 16 - Other Information	
References	: US MSDS No.: ZYT022
Other information	 The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company. Read the product information datasheet for this product or the molding guide for this resin family. Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.



Double Coated Polyethylene Foam Tapes 1600T-08

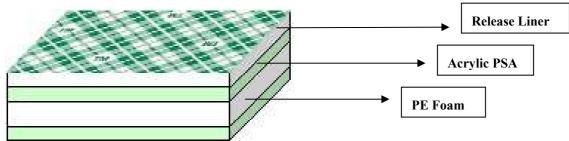
Technical Data

Jun., 2009

Product Description:

1600T-08 is double-coated polyethylene foam tape combines a conformable closed cell foam with a high strength acrylic adhesive that provide good initial tack and offer high ultimate adhesion to a wide variety of surfaces, including many plastics. In addition, it also possesses good shear property that provides long term holding power, even under elevated temperature and environmental conditions.

Construction:



Product Number	Adhesive type ¹ / Tape Thickness/ Tolerance	Adhesive carrier/ Color	Release liner Thickness, Color, Type, Print	Approximate density (foam only)
1600T-08	Acrylic, 0.8 mm±20%	Closed cell PE ² foam, White	0.0027" (0.07 mm) White, Glassine paper, Print in green color	7 lb/ft ³ (112 Kg/m ³)

Note 1: Pressure Sensitive Acrylic Adhesive provides excellent initial tack and adhesion to a wide variety surface including many low surface energy plastics.

Note 2: PE (Polyethylene)

Feature

- 1. 3M 1600T-08, feature a medium-soft acrylic pressure sensitive adhesive system. The key characteristics of this adhesive include a combination of high initial adhesion and good shear and holding power to a wide variety of materials, including many plastics.
- 2. 3M 1600T-08, feature good structural polyethylene foam strength to withstand heavy loading and harsh peeling.
- 3. Glassine paper liner features good converting characteristics.

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product Number	1600T-08
Adhesion to stainless steel ASTM D3330 — 90 °angle peel, jaw speed 12 in/min, 72 hour dwell time, 5 mil Al foil backed, at 22°C, 50%RH	5 Kg/in (11.1 lb/in)

Normal tensile (T block)	
ASTM D897 —1 inch ² overlap, jaw speed 2 in/min, 72 hour dwell time	33 Kg/in ² (72 psi)

Adhesion to stainless steel after High Temp. High Humidity Aging Test (70°C 95%RH 3days)	5 Kg/in (11.11b/in)
ASTM D3330 — 90 °angle peel, jaw speed 12 in/min, 5 mil Al foil backed, at 22°C, 50%RH	

Adhesion to stainless steel after Thermal cycling Aging test (-40°C 2hrs ~ +80°C 2hrs 12cyles) ASTM D3330 — 90 °angle peel, jaw speed 12 in/min, 5	6Kg/in (13 lb/in)
mil Al foil backed, at 22°C, 50%RH	

Relative High temperature Operating Ranges	

Long Term (days, weeks) Short Term (minutes, hours) 80°C (175°F) 100°C (212°F)

Shelf Life

12 months from date of receipt by customer when stored in original carton at 22 $^{\circ}\mathrm{C}$ and 50% relative humidity

Application Techniques:

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improves bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or N-heptane. Note: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Ideal tape application temperature range is 70° F to 100° F (21° C to 38° C). Initial tape application to surfaces at temperatures below 50° F (10° C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

Application Ideas

- The foam construction makes these products ideal for many joining, mounting, gasketing, and sealing application involving irregular surface.
- 1600T-08 tapes are specially formulated for many indoor/outdoor high performance purpose mounting and joining applications, including bonding to many Plastics, where moderate temperature and shear performance are required.
- For secure joining/mounting, 2 kilograms is the maximum static loading for 1 square inch tape application. Due to the consideration of less than 100% contact with the surface, variations in surface preparation, extreme/environmental conditions, customer evaluation and testing are required for every specific application.
- Application ideas for these tapes include
 - Plastic Hooks, Racks and Dispensers
 - Sign, Nameplates and Plaques
 - Wire and Cable Clips
 - Appliance, Display Case and Electronic Equipment Trim
 - Automotive trim

- Point of Purchase and other Displays
- General purpose Joining/Mounting

Important Notice	3M MAKES NO WARRANTES, EXPRESS OR IMPLED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.
Limitation of Remedies and Liability	If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

3M 1600T-08 was manufactured under a 3M's quality system registered to ISO 9002 standards; and environmental protection system registered to ISO 14000 standards.



Material Safety Data Sheet

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DOUBLE COATED PE FOAM TAPE 1600T AND 1600TG **MANUFACTURER:** 3M

DIVISION: International Operations

ADDRESS: 3M Center St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date:07/06/2004Supercedes Date:Initial Issue

Document Group: 19-4037-8

Product Use:

Specific Use:

BONDING

SECTION 2: INGREDIENTS

Ingredient

ACRYLIC ADHESIVE LINER: SILICONE COATED RELEASE PAPER POLYETHYLENE FOAM Mixture NONE NONE

C.A.S. No.

<u>% by Wt</u> 45 - 55 25 - 35 15 - 25

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: Tape with slight acrylic odour

General Physical Form: Solid

Immediate health, physical, and environmental hazards: The environmental properties of this product present a low environmental hazard. This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use

may affect the performance of the product and may present potential health and safety hazards.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact: No health effects are expected.

Skin Contact: No health effects are expected.

Inhalation: No health effects are expected.

Ingestion: No health effects are expected.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: No need for first aid is anticipated.

Skin Contact: No need for first aid is anticipated.

Inhalation: No need for first aid is anticipated.

If Swallowed: No need for first aid is anticipated.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL Not Applicable Not Applicable Not Applicable Not Applicable

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated. Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid prolonged or repeated skin contact. This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2 STORAGE

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

8.2.2 Skin Protection

Avoid prolonged or repeated skin contact. Gloves not normally required.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Not applicable.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL Boiling point Density Vapor Density

Vapor Pressure

Specific Gravity pH Melting point

Solubility in Water Evaporation rate Percent volatile Viscosity Tape with slight acrylic odour Solid Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

Not Applicable

Not Applicable Not Applicable Not Applicable

Nil Not Applicable Not Applicable Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide <u>Condition</u> During Combustion During Combustion

Hazardous Decomposition: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined. Not applicable.

CHEMICAL FATE INFORMATION

Not determined. Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator. As a disposal alternative, incinerate in an industrial or commercial facility.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14:TRANSPORT INFORMATION

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

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

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 0 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

No revision information is available.

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