

# SAFETY DATA SHEET

## NULLIFIRE FF177 FIRE-RATED PU FOAM

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                      NULLIFIRE FF177 FIRE-RATED PU FOAM

PRODUCT NO.                        11008

APPLICATION                        Curing, aerosol dispensed foam for use as a fire seal.

SUPPLIER                            Nullifire  
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### 2 HAZARDS IDENTIFICATION

Extremely flammable

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitisation by inhalation and skin contact.

Limited evidence of a carcinogenic effect.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

CLASSIFICATION (1999/45)        Xn;R20, R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38. F+;R12.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
DIMETHYL ETHER	204-065-8	115-10-6	5 - 10%	F+;R12
DIPHENYLMETHANEDIISOCYANATE - Isomers & homologues		9016-87-9	25 - 50%	Xn;R20,R48/20. Carc. Cat. 3;R40. Xi;R36/37/38. R42/43.
ISOBUTANE	200-857-2	75-28-5	1-5%	F+;R12
PROPANE	200-827-9	74-98-6	1-5%	F+;R12

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

NOTE! Effects may be delayed. Keep affected person under observation.

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### INGESTION

Get medical attention.

#### SKIN CONTACT

Wash skin thoroughly with soap and water. Contact physician if irritation continues or sores develop.

#### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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## 5 FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA**

Water spray, foam, dry powder or carbon dioxide.

DO NOT USE: Water jet.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

May explode in a fire. Vapours are heavier than air and may spread near ground to sources of ignition.

**SPECIFIC HAZARDS**

In case of fire, toxic gases may be formed (COx, NOx).

## 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS**

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

**ENVIRONMENTAL PRECAUTIONS**

Avoid discharge into drains. Avoid release to the environment.

**SPILL CLEAN UP METHODS**

For waste disposal, see section 13.

## 7 HANDLING AND STORAGE

**USAGE PRECAUTIONS**

Avoid inhalation of vapours. Keep away from heat, sparks and open flame. Provide good ventilation. Static electricity and formation of sparks must be prevented.

**STORAGE PRECAUTIONS**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in a cool and well-ventilated place.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DIMETHYL ETHER	WEL	400 ppm	766 mg/m3	500 ppm	958 mg/m3	
DIPHENYLMETHANEDIISOCYANATE - Isomers & homologues	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	as NCO

WEL = Workplace Exposure Limit.

**PROTECTIVE EQUIPMENT**



**ENGINEERING MEASURES**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

**RESPIRATORY EQUIPMENT**

In case of inadequate ventilation use suitable respirator.

**HAND PROTECTION**

Use protective gloves made of: Nitrile. Rubber (natural, latex).

**EYE PROTECTION**

Wear splash-proof eye goggles to prevent any possibility of eye contact.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of skin contact.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol
COLOUR	According to product specification
ODOUR	Characteristic

# NULLIFIRE FF177 FIRE-RATED PU FOAM

SOLUBILITY	Immiscible with water		
RELATIVE DENSITY	1.0 @ 20°C	FLASH POINT (°C)	- 97°C
AUTO IGNITION TEMPERATURE (°C)	350°C		

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

## 11 TOXICOLOGICAL INFORMATION

### INHALATION

May cause sensitisation by inhalation. Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### SKIN CONTACT

Liquid may irritate skin. May cause sensitisation by skin contact.

### EYE CONTACT

Irritating to eyes.

### OTHER HEALTH EFFECTS

Carcinogen Category 3.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

Not regarded as dangerous for the environment.

### BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

### DEGRADABILITY

The product is not readily biodegradable.

## 13 DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION

Empty containers containing residual product are classified as hazardous waste.

Cured foam is not hazardous waste

### DISPOSAL METHODS

In the UK refer to the Hazardous Waste Regulations (2005)

Contact specialist disposal companies.

### WASTE CLASS

EWC Code : 14 06 03 Hazard Classification: H3A H4 H5 H7

## 14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	AEROSOLS, flammable		
UN NO. ROAD	1950	ADR CLASS NO.	2 5F
ADR PACK GROUP	-	TUNNEL RESTRICTION CODE	(D)
ADR LABEL NO.	2.1	UN NO. SEA	1950
IMDG CLASS	2.1	IMDG PACK GR.	-
MARINE POLLUTANT	No.	UN NO. AIR	1950
AIR CLASS	2.1	AIR PACK GR.	-

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## 15 REGULATORY INFORMATION

**LABELLING**



Harmful



Extremely Flammable

**CONTAINS**

DIPHENYLMETHANEDIISOCYANATE - Isomers & homologues

**RISK PHRASES**

R12	Extremely flammable.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**SAFETY PHRASES**

A1	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2	Do not spray on a naked flame or any incandescent material.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S24/25	Avoid contact with skin and eyes.
S33	Take precautionary measures against static discharges.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.
P4	Contains isocyanates. See information supplied by the manufacturer. Build up of explosive mixtures possible without sufficient ventilation.

**UK REGULATORY REFERENCES**

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 ("CHIP 4")

**EU DIRECTIVES**

Dangerous Preparations Directive 1999/45/EC

**GUIDANCE NOTES**

Workplace Exposure Limits EH40.

## 16 OTHER INFORMATION

**REVISION COMMENTS**

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 01/11/2010

REV. NO./REPL. SDS GENERATED 25/01/2010

SDS NO. 11146

**RISK PHRASES IN FULL**

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## DISCLAIMER

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