

## SPLICE ADHESIVE SA-1065

### 1. Identification of the substance/preparation and of the company/undertaking

#### 1.1 Identification of the substance or preparation:

Synonyms: none  
 CAS No. : N.A.  
 EC index No. : N.A.  
 EINECS No. : N.A.  
 RTECS No. : N.A.  
 NFPA code : N.D.  
 Molecular weight : N.A.  
 Formula : N.A.

#### 1.2 Use of the substance or the preparation:

Adhesive

#### 1.3 Company/undertaking identification:

Firestone Building Products  
 Ikaroslaan 75  
 B-1930 Zaventem  
 Tel. : +32 2 711 44 50  
 Fax : +32 2 721 27 18  
 Email: info@fbpe.be

#### 1.4 Telephone number for emergency:

+32 70 245 245  
 Poison Centre  
 p/a Militair Hospitaal Koningin Astrid, Bruynstraat 1, B-1120 Brussel

### 2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
n-hexane	110-54-3 203-777-6	14	F;Xn;N	11-38-48/20-51/53-62-65-67 (1)
hexamethylene diisocyanate, oligomers	28182-81-2 500-060-2	<2	Xi	43 (1)
toluene	108-88-3 203-625-9	52	F;Xn	11-38-48/20-63-65-67 (1)
xylenes, having a flashpoint <23°C and a boiling point >35°C and a vapour pressure at 50°C < or = 1.10bar	1330-20-7 215-535-7	5	F;Xn	11-20/21-38 (1)

(1) For R-phrases in full: see heading 16

### 3. Hazards identification

- Highly flammable
- Irritating to skin
- May cause sensitisation by skin contact
- Harmful: danger of serious damage to health by prolonged exposure through inhalation
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- Possible risk of impaired fertility
- Possible risk of harm to the unborn child
- Vapours may cause drowsiness and dizziness

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 Revision number : 000

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## 4. First aid measures

- 4.1 Eye contact:**
- Consult a doctor/medical service if irritation persists
  - Rinse immediately with plenty of water
- 4.2 Skin contact:**
- Consult a doctor/medical service if irritation persists
  - Wash immediately with lots of water
- 4.3 After inhalation:**
- Consult a doctor/medical service if breathing problems develop
  - Remove the victim into fresh air
  - Unconscious: maintain adequate airway and respiration
- 4.4 After ingestion:**
- Consult a doctor/medical service if you feel unwell
  - Never give water to an unconscious person
  - Do not induce vomiting

## 5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Water spray
  - Polyvalent foam
  - BC powder
  - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- Solid water jet ineffective as extinguishing medium
- 5.3 Special exposure hazards:**
- Gas/vapour spreads at floor level: ignition hazard
  - Gas/vapour flammable with air within explosion limits
- 5.4 Instructions:**
- If exposed to fire cool the closed containers by spraying with water
  - Take account of environmentally hazardous firefighting water
  - Use firefighting water moderately and contain it
- 5.5 Special protective equipment for firefighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
  - Protective clothing for exposure to chemicals

## 6. Accidental release measures

- 6.1 Personal protection/precautions:**
- See heading 8.2/8.3/13
- 6.2 Environmental precautions:**
- Prevent soil and water pollution
  - Prevent spreading in sewers
  - Contain leaking substance
  - Dam up the liquid spill
  - Try to reduce evaporation
- 6.3 Methods for cleaning up:**
- Take up liquid spill into inert absorbent material, e.g.: sand/earth
  - Scoop absorbed substance into closing containers
  - Carefully collect the spill/leftovers
  - Clean contaminated surfaces with an excess of water
  - Wash clothing and equipment after handling
  - Take collected spill to manufacturer/competent authority

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## 7. Handling and storage

### 7.1 Handling:

- Insufficient ventilation:
- Observe very strict hygiene - avoid contact
- Take precautions against electrostatic charges
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately

### 7.2 Storage:

- Keep container tightly closed
- Store at room temperature  
Keep out of direct sunlight
- Limited time of storage
- Keep away from: heat sources, ignition sources, oxidizing agents, acids, bases

Storage temperature	: 15/25	°C
Quantity limits	: N.D.	kg
Storage life	: 270	days
Materials for packaging	:	
- suitable	: no data available	
- to avoid	: no data available	

### 7.3 Specific uses:

- See information supplied by the manufacturer

## 8. Exposure controls/Personal protection

### 8.1 Exposure limit values:

n-hexane

TLV-TWA	:	mg/m <sup>3</sup>	50	ppm
TLV-STEL	:	mg/m <sup>3</sup>	-	ppm
OES-LTEL	: 72	mg/m <sup>3</sup>	20	ppm
OES-STEL	: -	mg/m <sup>3</sup>	-	ppm
MAK	: 180	mg/m <sup>3</sup>	50	ppm
MAC-TGG 8 h	: 90	mg/m <sup>3</sup>		
MAC-TGG 15 min.	: 180	mg/m <sup>3</sup>		
VME-8 h	: 170	mg/m <sup>3</sup>	50	ppm
VLE-15 min.	: -	mg/m <sup>3</sup>	-	ppm
GWBB-8 h	: 179	mg/m <sup>3</sup>	50	ppm
GWK-15 min.	: -	mg/m <sup>3</sup>	-	ppm
EC	:	mg/m <sup>3</sup>		ppm
EC-STEL	:	mg/m <sup>3</sup>		ppm

toluene

TLV-TWA	:	mg/m <sup>3</sup>	50	ppm
TLV-STEL	:	mg/m <sup>3</sup>	-	ppm
OES-LTEL	: 191	mg/m <sup>3</sup>	50	ppm
OES-STEL	: 574	mg/m <sup>3</sup>	150	ppm
MAK	: 190	mg/m <sup>3</sup>	50	ppm
MAC-TGG 8 h	: 150	mg/m <sup>3</sup>		
MAC-TGG 15 min.	:	mg/m <sup>3</sup>		
VME-8 h	: 375	mg/m <sup>3</sup>	100	ppm
VLE-15 min.	: 550	mg/m <sup>3</sup>	150	ppm
GWBB-8 h	: 191	mg/m <sup>3</sup>	50	ppm
GWK-15 min.	: -	mg/m <sup>3</sup>	-	ppm
EC	:	mg/m <sup>3</sup>		ppm
EC-STEL	:	mg/m <sup>3</sup>		ppm

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xylenes, having a flashpoint <23°C and a boiling point >35°C and a vapour pressure at 50°C < or = 1,10 bar

TLV-TWA	:	mg/m <sup>3</sup>	100	ppm
TLV-STEL	:	mg/m <sup>3</sup>	150	ppm
OES-LTEL	:	mg/m <sup>3</sup>	50	ppm
OES-STEL	:	mg/m <sup>3</sup>	100	ppm
MAK	:	mg/m <sup>3</sup>	100	ppm
MAC-TGG 8 h	:	mg/m <sup>3</sup>		
MAC-TGG 15 min.	:	mg/m <sup>3</sup>		
VME-8 h	:	mg/m <sup>3</sup>	50	ppm
VLE-15 min.	:	mg/m <sup>3</sup>	100	ppm
GWBB-8 h	:	mg/m <sup>3</sup>	50	ppm
GWK-15 min.	:	mg/m <sup>3</sup>	100	ppm
EC	:	mg/m <sup>3</sup>	50	ppm
EC-STEL	:	mg/m <sup>3</sup>	100	ppm

### Sampling methods:

- n-Hexane (Hydrocarbons, BP36 to 126C)	NIOSH 1500
- n-Hexane	OSHA 7
- Xylene (Hydrocarbons, aromatic)	NIOSH 1501
- Xylene (o-, m-, & p-isomers)	OSHA 7
- Toluene	NIOSH 1500
- Toluene	OSHA 07
- Toluene (Hydrocarbons, aromatic)	NIOSH 1501
- Toluene	NIOSH 4000
- Toluene	OSHA CSI

## 8.2 Exposure controls:

### 8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

### 8.2.2 Environmental exposure controls: see heading 13

## 8.3 Personal protection:

### 8.3.1 respiratory protection:

- High vapour concentration: gas mask with filter A

### 8.3.2 hand protection:

- Gloves
- Suitable materials:
 

Neoprene
Nitrile rubber
PVA

- Breakthrough time: N.D.

### 8.3.3 eye protection:

- Protective goggles

### 8.3.4 skin protection:

- Head/neck protection
- Protective clothing
- Suitable materials:
 

Neoprene
Nitrile rubber
PVA

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## 9. Physical and chemical properties

### 9.1 General information:

Appearance (at 20°C) : Liquid  
Odour : Aromatic  
Colour : Black

### 9.2 Important health, safety and environmental information:

pH value : N.D.  
Boiling point/boiling range : > 66 °C  
Flashpoint : < -18 °C  
Explosion limits : 1.2/7.0 vol% ( °C)  
Vapour pressure (at 20°C) : < 166 hPa  
Vapour pressure (at 50°C) : N.D. hPa  
Relative density (at 20°C) : 0.88  
Water solubility : Insoluble  
Soluble in : N.D.  
Relative vapour density : 3.7  
Viscosity : N.D. Pa.s  
Partition coefficient n-octanol/water : N.D.  
Evaporation rate :  
ratio to butyl acetate : N.D.  
ratio to ether : 2/10

### 9.3 Other information:

Melting point/melting range : N.D. °C  
Auto-ignition point : N.D. °C  
Saturation concentration : N.D. g/m<sup>3</sup>

## 10. Stability and reactivity

### 10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

### 10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources, oxidizing agents, acids, bases

### 10.3 Hazardous decomposition products:

- Upon combustion formation of CO, CO<sub>2</sub> and small quantities of nitrous vapours

## 11. Toxicological information

### 11.1 Acute toxicity:

LD50 oral rat : N.D. mg/kg  
LD50 dermal rat : N.D. mg/kg  
LD50 dermal rabbit : N.D. mg/kg  
LC50 inhalation rat : N.D. mg/l/4 h  
LC50 inhalation rat : N.D. ppm/4 h

## 11.2 Chronic toxicity:

EC carc. cat.	: not listed
EC muta. cat.	: not listed
EC repr. cat.	: 3 (n-hexane)(toluene)
Carcinogenicity (TLV)	: A4(toluene)(xylenes)
Carcinogenicity (MAC)	: not listed
Carcinogenicity (VME)	: not listed
Carcinogenicity (GWBB)	: not listed
Carcinogenicity (MAK)	: not listed
Mutagenicity (MAK)	: not listed
Teratogenicity (MAK)	: C (n-hexane)(toluene)
Teratogenicity (MAK)	: D (xylenes)
IARC classification	: 3(toluene)(xylenes)

11.3 Routes of exposure: ingestion, inhalation, eyes and skin  
Caution! Substance is absorbed through the skin

## 11.4 Acute effects/symptoms:

- **AFTER INHALATION**
- EXPOSURE TO HIGH CONCENTRATIONS:
- Headache
- Nausea
- Irritation of the respiratory tract
- Irritation of the nasal mucous membranes
- Feeling of weakness
- Dizziness
- CNS depression
- Narcosis
- Mental confusion
- Drunkenness
- Coordination disorders
- Disturbed motor response
- Disturbances of consciousness
- **AFTER INGESTION**
- Risk of aspiration pneumonia
- Nausea
- Abdominal pain
- CNS depression
- Symptoms similar to those listed under inhalation
- **AFTER SKIN CONTACT**
- Tingling/irritation of the skin
- **AFTER EYE CONTACT**
- Irritation of the eye tissue

## 11.5 Chronic effects:

- May cause sensitization by skin contact
- Possible risk of impaired fertility
- Possibly hazardous to the foetus
- Prolonged exposure: danger of damage to health
- through inhalation
- Causes damage to the central nervous system
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)

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- ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
- Dry skin
- Skin rash/inflammation
- Impairment of the nervous system
- Tremor
- Impaired memory
- Impaired concentration
- Brain affection
- Disturbances of heart rate
- Change in the haemogramme/blood composition
- Movement disturbances
- Myasthenia
- Cramps/uncontrolled muscular contractions
- Paralysis

## 12. Ecological information

### 12.1 Ecotoxicity:

#### n-hexane:

- LC50 (96 h) : 113 mg/l (TILAPIA MOSAMBICA)
- EC50 (48 h) : 2.1 mg/l (DAPHNIA MAGNA)
- EC50 ( h) : 114 mg/l (CHLOROPHYTA)

### 12.2 Mobility:

- Volatile organic compounds (VOC): 66%
- Insoluble in water

For other physicochemical properties see heading 9

### 12.3 Persistence and degradability:

- biodegradation BOD<sub>5</sub> : N.D. % ThOD
- water : - No data available
- soil : T ½: N.D. days

### 12.4 Bioaccumulative potential:

- log P<sub>ow</sub> : N.D.
- BCF : N.D.

### 12.5 Other adverse effects:

- WGK : 2 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- Effect on the ozone layer : Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect : no data available
- Effect on waste water purification : no data available

## 13. Disposal considerations

### 13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 09\* (waste adhesives and sealants containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

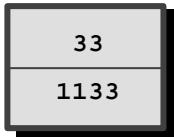
### 13.2 Disposal methods:

- Incinerate under surveillance
- Do not discharge into drains or the environment

### 13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10\* (packaging containing residues of or contaminated by dangerous substances)

## 14. Transport information



- 14.1 Classification of the substance in compliance with UN Recommendations  
 UN number : 1133  
 CLASS : 3  
 SUB RISKS : -  
 PACKING : II  
 PROPER SHIPPING NAME :  
 UN 1133, Adhesives, Special provision 640D
- 14.2 ADR (transport by road)  
 CLASS : 3  
 PACKING : II  
 CLASSIFICATION CODE : F1  
 DANGER LABEL TANKS : 3  
 DANGER LABEL PACKAGES : 3
- 14.3 RID (transport by rail)  
 CLASS : 3  
 PACKING : II  
 CLASSIFICATION CODE : F1  
 DANGER LABEL TANKS : 3  
 DANGER LABEL PACKAGES : 3
- 14.4 ADNR (transport by inland waterways)  
 CLASS : 3  
 PACKING : II  
 CLASSIFICATION CODE : F1  
 DANGER LABEL TANKS : 3  
 DANGER LABEL PACKAGES : 3
- 14.5 IMDG (maritime transport)  
 CLASS : 3  
 SUB RISKS : -  
 PACKING : II  
 MFAG : -  
 EMS : F-E, S-D  
 MARINE POLLUTANT : -
- 14.6 ICAO (air transport)  
 CLASS : 3  
 SUB RISKS : -  
 PACKING : II  
 PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 305/Y305  
 PACKING INSTRUCTIONS CARGO AIRCRAFT : 307
- 14.7 Special precautions in connection with transport : none
- 14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:  
 each package shall display a diamond-shaped figure with the following inscription:  
 - 'UN 1133'  
 or, in the case of different goods with different identification numbers within a single package:  
 - the letters 'LQ'

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## 15. Regulatory information

Classification according to directives 67/548/EEC and 1999/45/EC



Highly flammable



Harmful

contains: hexamethylene diisocyanate, oligomers; toluene; n-hexane

R11 : Highly flammable  
R38 : Irritating to skin  
R43 : May cause sensitisation by skin contact  
R48/20 : Harmful: danger of serious damage to health by prolonged exposure through inhalation  
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R62 : Possible risk of impaired fertility  
R63 : Possible risk of harm to the unborn child  
R67 : Vapours may cause drowsiness and dizziness

S09 : Keep container in a well-ventilated place  
S16 : Keep away from sources of ignition - No smoking  
S33 : Take precautionary measures against static discharges  
S36/37 : Wear suitable protective clothing and gloves  
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

## 16. Other information

The information provided on this MSDS 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**N.A.** = NOT APPLICABLE  
**N.D.** = NOT DETERMINED  
**(\*)** = INTERNAL CLASSIFICATION (NFPA)

### Exposure limits:

**TLV** : Threshold Limit Value - ACGIH USA  
**OES** : Occupational Exposure Standards - United Kingdom  
**MEL** : Maximum Exposure Limits - United Kingdom  
**MAK** : Maximale Arbeitsplatzkonzentrationen - Germany  
**TRK** : Technische Richtkonzentrationen - Germany  
**MAC** : Maximale aanvaarde concentratie - The Netherlands  
**VME** : Valeurs limites de Moyenne d'Exposition - France  
**VLE** : Valeurs limites d'Exposition à court terme - France  
**GWBB** : Grenswaarde beroepsmatige blootstelling - Belgium  
**GWK** : Grenswaarde kortstondige blootstelling - Belgium  
**EC** : Indicative occupational exposure limit values - directive 2000/39/EC

**I** : Inhalable fraction = **T**: Total dust = **E**: Einatembarer Aerosolanteil  
**R** : Respirable fraction = **A**: Alveolengängiger Aerosolanteil/Alveolar dust  
**C** : Ceiling limit

<b>a:</b>	aerosol	<b>r:</b>	rook/Rauch	(fume)
<b>d:</b>	damp (vapour)	<b>st:</b>	stof/Staub	(dust)
<b>du:</b>	dust	<b>ve:</b>	vezel	(fibre)
<b>fa:</b>	Faser (fibre)	<b>va:</b>	vapour	
<b>fi:</b>	fibre	<b>om:</b>	oil mist	
<b>fu:</b>	fume	<b>on:</b>	olienevel/Ölnebel	(oil mist)
<b>p:</b>	poussière (dust)	<b>part:</b>	particles	

### Chronic toxicity:

**K** : List of the carcinogenic substances and processes - The Netherlands

### Full text of any R-phrases referred to under heading 2:

R11 : Highly flammable  
R20/21 : Harmful by inhalation and in contact with skin  
R38 : Irritating to skin  
R43 : May cause sensitisation by skin contact  
R48/20 : Harmful: danger of serious damage to health by prolonged exposure through inhalation  
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R62 : Possible risk of impaired fertility  
R63 : Possible risk of harm to the unborn child  
R65 : Harmful: may cause lung damage if swallowed  
R67 : Vapours may cause drowsiness and dizziness