

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : Flexible FAST Adhesive Part B  
Product code : 310473, 317331

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : Commercial roofing adhesive  
For professional use only

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Carlisle Syntec Europe B.V.  
Bloemendalerweg 25  
1382 KB Weesp  
Netherlands

**1.4. Emergency telephone number**

Emergency number : +44 1865 407 333 – English speaking (24 hours, 7 days)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Full text of H-statements: see section 16

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Not classified

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H315 - Causes skin irritation  
H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P264 - Wash hands thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention

**2.3. Other hazards**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**SECTION 3: Composition/information on ingredients****3.1. Substance**

Not applicable

# Flexible FAST Adhesive Part B

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Tris(2-chloro-1-methylethyl) phosphate	(CAS No) 13674-84-5 (EC No.) 237-158-7	10 - 20	Xn; R22
1,4-Diazabicyclo[2.2.2]octane	(CAS No) 280-57-9	0.1 - 1	F; R11 Xn; R22 Xi; R36/38
2-(Dimethylamino)ethanol	(CAS No) 108-01-0 (EC No.) 203-542-8 (EC index No.) 603-047-00-0	0.1 - 1	R10 Xn; R20/21/22 C; R34

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tris(2-chloro-1-methylethyl) phosphate	(CAS No) 13674-84-5 (EC No.) 237-158-7	10 - 20	Acute Tox. 4 (Oral), H302
1,4-Diazabicyclo[2.2.2]octane	(CAS No) 280-57-9	0.1 - 1	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-(Dimethylamino)ethanol	(CAS No) 108-01-0 (EC No.) 203-542-8 (EC index No.) 603-047-00-0	0.1 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314

Full text of R- and H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. Rinse skin with plenty of water or shower. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. Do not give an unconscious person anything to drink. Obtain immediate medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Inhalation of vapours may cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Ingestion may cause irritation of the gastrointestinal tract.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry chemical. Foam. Carbon dioxide.
Unsuitable extinguishing media	: None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Explosion hazard	: Containers may rupture when heated.
Hazardous decomposition products in case of fire	: Fire may produce irritating, corrosive and/or toxic gases. Phosphorus oxides. Nitrogen oxides. Hydrogen halides. Carbon monoxide. Carbon dioxide.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

# Flexible FAST Adhesive Part B

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Ensure adequate ventilation.

##### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection.

Emergency procedures : Ensure adequate ventilation. Avoid inhalation of vapours. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Small spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal. Wash spill area with soapy water. Washings must be prevented from entering surface water drains.

#### 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Avoid inhalation of vapours. Avoid contact with skin, eyes and clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

Incompatible materials : Strong acids. Strong alkalis. Strong oxidizing agents. Isocyanates.

Storage temperature : 18 - 30 °C

#### 7.3. Specific end use(s)

Commercial roofing adhesive. For professional use only.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

2-(Dimethylamino)ethanol (108-01-0)		
United Kingdom	Local name	2-Dimethylaminoethanol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	7.4 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	2 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	6 ppm

#### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear chemically resistant protective gloves. Standard EN 374 - Protective gloves against chemicals. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection : Chemical goggles or face shield. Standard EN 166 - Personal eye-protection.

Skin and body protection : Long sleeved protective clothing.

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection : Wear heat-resistant gloves and clothing if the product is heated.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Blue.

# Flexible FAST Adhesive Part B

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Odour	: Amine-like. Musty.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: < 1
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: > 93 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: > 200 °C
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: > 1 (air = 1)
Relative density	: 1.1058 (25°C) (Water = 1)
Density	: 1.1058 g/cm <sup>3</sup> (25°C)
Solubility	: Miscible with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 250 mPa·s
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: No data available

### 9.2. Other information

VOC content : 0 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts in contact with : Alkalis. Oxidising agents.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Extremely high or low temperatures. Avoid prolonged heating above 160°C or storage below 5°C.

### 10.5. Incompatible materials

Strong acids. Strong alkalis. Strong oxidizing agents. Isocyanates.

### 10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Phosphorus oxides. Nitrogen oxides. Hydrogen halides. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
Based on available data, the classification criteria are not met

1,4-Diazabicyclo[2.2.2]octane (280-57-9)	
LD50 oral rat	1700 mg/kg
LD50 dermal rabbit	3200 mg/kg
2-(Dimethylamino)ethanol (108-01-0)	
LD50 oral rat	1803 mg/kg
LD50 dermal rabbit	1220 mg/kg
LC50 inhalation rat (ppm)	1641 ppm/4h
Tris(2-chloro-1-methylethyl) phosphate (13674-84-5)	
LD50 oral rat	630 mg/kg

# Flexible FAST Adhesive Part B

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

<b>Tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</b>	
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 7 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Causes skin irritation. Causes serious eye irritation. Ingestion may cause irritation of the gastrointestinal tract. Inhalation of vapours may cause respiratory irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Not classified.

<b>1,4-Diazabicyclo[2.2.2]octane (280-57-9)</b>	
LC50	1700 - 1980 mg/l (96 Hours, flow-through, Pimephales promelas)

<b>2-(Dimethylamino)ethanol (108-01-0)</b>	
LC50	81 mg/l (96, static test, Pimephales promelas)
EC50	98.77 mg/l (48 Hours, Daphnia magna)
EC50	35 mg/l (72 Hours, Desmodesmus subspicatus)

<b>Tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</b>	
LC50	56.2 mg/l (96 Hours, static test, Brachydanio rerio (zebra-fish))
LC50	98 mg/l (96 Hours, static test, Pimephales promelas)
LC50	30 mg/l (96 Hours, static test, Poecilia reticulata)
EC50	63 mg/l (48 Hours, Daphnia magna)
EC50	45 mg/l (72 Hours, Desmodesmus subspicatus)
EC50	4 mg/l (96 Hours, Pseudokirchnerella subcapitata)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

<b>Flexible FAST Adhesive Part B</b>	
Ecology - soil	Miscible with water.

### 12.5. Results of PBT and vPvB assessment

<b>Flexible FAST Adhesive Part B</b>	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

### 12.6. Other adverse effects

: Avoid release to the environment

# Flexible FAST Adhesive Part B

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Waste treatment methods : Dispose of this material and its container at hazardous or special waste collection point.
- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Additional information : Handle empty containers with care.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

:

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

Special transport precautions : No special precautions required.

##### 14.6.1. Overland transport

No additional information available

##### 14.6.2. Transport by sea

No additional information available

##### 14.6.3. Air transport

No additional information available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
--

Flexible FAST Adhesive Part B
-------------------------------

Contains no substance on the REACH candidate list

VOC content : 0 g/l

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4

# Flexible FAST Adhesive Part B

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H226	Flammable liquid and vapour
H228	Flammable solid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
R10	Flammable
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R34	Causes burns
R36/38	Irritating to eyes and skin
C	Corrosive
F	Highly flammable
Xi	Irritant
Xn	Harmful

### NCEC SDS EU (REACH ANNEX II)

*The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, CCWI Company must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use*