

# Main Group

## SAFETY DATA SHEET FUSION PVC ADHESIVE (THIXO)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name FUSION PVC ADHESIVE (THIXO)

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

Identified uses PVC Adhesive

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

Supplier MAIN CHEMICAL CO. LTD  
P.O. Box 14  
Heckmondwike  
West Yorkshire  
WF16 0XQ

Tel : +44 (0)1924 404006  
Fax : +44 (0)1924 400999  
Email : technical@mainchemicals.com

#### 1.4. Emergency telephone number

Emergency telephone Tel : +44 (0) 1924 404006 (Office Hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225  
Health hazards Eye Irrit. 2 - H319 Carc. 2 - H351 STOT SE 3 - H335  
Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Carc. Cat. 3;R40. Xi;R36/37. F;R11. R19.

#### 2.2. Label elements

##### Pictogram



Signal word

Danger

##### Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.

## FUSION PVC ADHESIVE (THIXO)

<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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### Contains

**Contains** TETRAHYDROFURAN

<b>Supplementary precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p>
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### 2.3. Other hazards

Hazard id 2a

Hazard ID 2A

"Hazard ID 2A"

Hazard

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>TETRAHYDROFURAN</b>	<b>60-100%</b>
CAS number: 109-99-9	EC number: 203-726-8
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 Carc. 2 - H351 STOT SE 3 - H335	<b>Classification (67/548/EEC or 1999/45/EC)</b> Carc. Cat. 3;R40. Xi;R36/37. F;R11. R19.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Ingredient notes** MIXTURE OF SUBSTANCES LISTED ABOVE WITH NON-HAZARDOUS ADDITIONS.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

## FUSION PVC ADHESIVE (THIXO)

<b>General information</b>	In case of an accident or if you feel unwell, seek medical advice immediately (show label where possible). Immediately remove contaminated clothing. Move affected person to fresh air at once. CAUTION! First aid personnel must be aware of own risk during rescue! Consult a physician for specific advice.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention if any discomfort continues. Never give anything by mouth to an unconscious person.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea. Upper respiratory irritation. Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide. Larger fires: Water spray. Alcohol-resistant foam.
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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . Oxides of carbon. Oxides of nitrogen. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
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### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	Cool containers exposed to flames with water until well after the fire is out. Do not use water jet as an extinguisher, as this will spread the fire. Control run-off water by containing and keeping it out of sewers and watercourses.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

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

## FUSION PVC ADHESIVE (THIXO)

### Personal precautions

Warn everybody of potential hazards and evacuate if necessary. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

#### Environmental precautions

Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

#### Methods for cleaning up

Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. If involved in a fire, shut off flow if it can be done without risk. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

### 6.4. Reference to other sections

#### Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Avoid contact with skin and eyes. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. If ventilation is inadequate, suitable respiratory protection must be worn. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Use explosion proof electric equipment.

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

#### Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Do not store near heat sources or expose to high temperatures. Protect from freezing and direct sunlight.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### TETRAHYDROFURAN

Long-term exposure limit (8-hour TWA): WEL 50 ppm 150 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 300 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

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### TETRAHYDROFURAN (CAS: 109-99-9)

<b>DNEL</b>	Professional - Inhalation; Short term local effects: 300 mg/m <sup>3</sup> Professional - Dermal; Long term systemic effects: 25 mg/kg/day Consumer - Inhalation; Long term systemic effects: 62 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 15 mg/kg/day Consumer - Dermal; Short term : 150 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 15 mg/kg/day Professional - Inhalation; Long term systemic effects: 150 mg/m <sup>3</sup> Professional - Inhalation; Short term systemic effects: 300 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 4.32 mg/l - marine water; 0.432 mg/l - STP; 4.6 mg/l - Sediment (Freshwater); 23.3 mg/kg - Sediment (Marinewater); 2.33 mg/kg - Soil; 2.13 mg/kg - water; 21.6 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

#### Other skin and body protection

Provide eyewash station and safety shower. Wear apron or protective clothing in case of contact.

#### Hygiene measures

When using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

### **SECTION 9: Physical and chemical properties**

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Ether.
<b>Melting point</b>	-108.50°C
<b>Initial boiling point and range</b>	65°C
<b>Flash point</b>	-21°C
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 2.3 Upper flammable/explosive limit: 12.7
<b>Vapour pressure</b>	173 mbar @ 20°C

## FUSION PVC ADHESIVE (THIXO)

<b>Relative density</b>	0.883 @ @ 20°C
<b>Bulk density</b>	0.887 g/cm <sup>3</sup> @ 20°C
<b>Solubility(ies)</b>	Miscible with water. Miscible with the following materials: Organic solvents.
<b>Partition coefficient</b>	: 0.45
<b>Auto-ignition temperature</b>	215°C
<b>Viscosity</b>	0.456 mPa s @ 25°C

### 9.2. Other information

**Molecular weight** 72.11

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** May form explosive peroxides.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None known. May polymerise. Avoid heat.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.

### 10.5. Incompatible materials

**Materials to avoid** Flammable/combustible materials. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Other health effects** Suspected of causing cancer.

### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

### Reproductive toxicity

**Reproductive toxicity - fertility** Does not contain any substances known to be toxic to reproduction.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not available.

### Aspiration hazard

**Aspiration hazard** Not applicable.

## FUSION PVC ADHESIVE (THIXO)

<b>Inhalation</b>	Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Irritating to respiratory system.
<b>Ingestion</b>	No specific health hazards known.
<b>Skin contact</b>	No specific health hazards known.
<b>Eye contact</b>	Irritating to eyes.

### Toxicological information on ingredients.

#### TETRAHYDROFURAN

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0 mg/kg)

##### Acute toxicity - inhalation

Acute toxicity inhalation 0.0147 (LC<sub>50</sub> vapours mg/l)

### SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

#### 12.1. Toxicity

##### Ecological information on ingredients.

#### TETRAHYDROFURAN

##### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 2160 mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 5930 mg/l (24h) mg/l, Daphnia magna

Acute toxicity - microorganisms , : 460 mg/l,

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is not readily biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** : 0.45

#### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

### SECTION 13: Disposal considerations

## FUSION PVC ADHESIVE (THIXO)

### 13.1. Waste treatment methods

<b>General information</b>	Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
<b>Disposal methods</b>	Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	2056
UN No. (IMDG)	2056
UN No. (ICAO)	2056
UN No. (ADN)	2056

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	TETRAHYDROFURAN
Proper shipping name (IMDG)	TETRAHYDROFURAN
Proper shipping name (ICAO)	TETRAHYDROFURAN
Proper shipping name (ADN)	TETRAHYDROFURAN

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

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

#### 14.6. Special precautions for user



## FUSION PVC ADHESIVE (THIXO)

<b>EmS</b>	F-E, S-D
<b>ADR transport category</b>	2
<b>Emergency Action Code</b>	•2YE
<b>Hazard Identification Number (ADR/RID)</b>	33
<b>Tunnel restriction code</b>	(D/E)

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

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

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). EH40/2005 Workplace exposure limits. Health and Safety at Work etc. Act 1974 (as amended). Control of Substances Hazardous to Health Regulations 2002 (as amended).
<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Introduction to Local Exhaust Ventilation HS(G)37. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

### **SECTION 16: Other information**

<b>General information</b>	Quality Assurance: Main Chemical Co Ltd, Conforms to ISO 9001 : 2015 Cert No. 14130770  Environmental Standard: Main Chemical Co Ltd, Conforms to ISO 14001 : 2015 Cert No. 14124143
<b>Revision date</b>	17/12/2014
<b>Revision</b>	08/01/2016
<b>Supersedes date</b>	29/11/2018
<b>SDS number</b>	10566
<b>Risk phrases in full</b>	R11 Highly flammable. R19 May form explosive peroxides. R36/37 Irritating to eyes and respiratory system. R40 Limited evidence of a carcinogenic effect.

## FUSION PVC ADHESIVE (THIXO)

<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H351 Suspected of causing cancer.
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Uses Advised Against: The product should not be used for any other purpose other than its intended use. Handling, storage and conditions to avoid instructions must be followed at all times. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.