

# ALPHA

## SAFETY DATA SHEET THIXOFIX (Improved)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name THIXOFIX (Improved)

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

Identified uses Non-Drip Thixotropic Contact Adhesive

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

Supplier Alpha Adhesives & Sealants Ltd  
Llewellyn Close, Sandy Lane Ind. Est.  
Stourport-on-Severn  
Worcestershire DY13 9RH  
01299 828626  
01299 828666  
sales@alpha-adhesives.co.uk

#### 1.4. Emergency telephone number

44 (0) 1299 828626 (Available 08.30 to 17.00)

### SECTION 2: HAZARDS IDENTIFICATION

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

Classification (1999/45/EEC) Xi;R36/38. F;R11. N;R51/53. R67.

#### 2.2. Label elements

Labelling



Irritant



Highly flammable



Dangerous for the environment

Risk Phrases

R11	Highly flammable
R36/38	Irritating to eyes and skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

Safety Phrases

S16	Keep away from sources of ignition - No smoking.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29	Do not empty into drains.
S37	Wear suitable gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

## THIXOFIX (Improved)

CYCLOHEXANE		10-30%
CAS-No.: 110-82-7	EC No.: 203-806-2	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) F;R11 Xn;R65 Xi;R38 R67 N;R50/53	
BUTANONE		10-30%
CAS-No.: 78-93-3	EC No.: 201-159-0	Registration Number: 01-2119457290-43
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67	
HYDROCARBONS C7- C9,n-alkanes,isoalkanes,cyclics		10-30%
CAS-No.:	EC No.: 920-750-0	Registration Number: 01-2119473851-33
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R38. F;R11. N;R51/53. R66,R67.	
ETHYL ACETATE		10-30%
CAS-No.: 141-78-6	EC No.: 205-500-4	Registration Number: 01-2119475103-46
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67	
ACETONE		10-30%
CAS-No.: 67-64-1	EC No.: 200-662-2	Registration Number: 01-2119471330-49
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67	

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

## THIXOFIX (Improved)

### Composition Comments

The data shown are in accordance with the latest EC Directives. Toluene content = 0.0003%

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Keep the affected person warm and at rest. Get prompt medical attention.

#### Inhalation

Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues.

#### Ingestion

Immediately rinse mouth and drink plenty of water. If person becomes uncomfortable or if ingested in large amounts (50-100 ml for an adult person): Take to hospital along with these instructions.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water.

#### Eye contact

No recommendation given, but first aid may still be required in case of accidental exposure of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

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

#### General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### Inhalation.

Vapours may cause headache, fatigue, dizziness and nausea.

#### Ingestion

May cause stomach pain or vomiting.

#### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact

Irritating and may cause redness and pain.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

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

#### Hazardous combustion products

Fire creates: Irritating gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl).

#### Unusual Fire & Explosion Hazards

May form explosive mixture with air at very high concentration. Vapours are heavier than air and may spread near ground to sources of ignition.

#### Specific hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Avoid breathing fire vapours. Ventilate closed spaces before entering them. NOTE! Use air-supplied respirators to protect against gases/fumes. Cool containers exposed to flames with water until well after the fire is out.

#### Protective equipment for fire-fighters

Wear full protective clothing. Use air-supplied respirator during fire fighting. Face mask, protective gloves and safety helmet.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Use protective gloves, goggles and suitable protective clothing.

## THIXOFIX (Improved)

### 6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

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

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb with sand or other inert absorbent.

### 6.4. Reference to other sections

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

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid inhalation of vapours/spray and contact with skin and eyes.

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

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place.

Storage Class

Flammable liquid storage.

### 7.3. 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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ACETONE	WEL	500 ppm	1210 mg/m <sup>3</sup>	1500 ppm	3620 mg/m <sup>3</sup>	
BUTANONE	WEL	200 ppm(Sk)	600 mg/m <sup>3</sup> (Sk)	300 ppm(Sk)	899 mg/m <sup>3</sup> (Sk)	
CYCLOHEXANE	WEL	100	350 mg/m <sup>3</sup>	300	1050 mg/m <sup>3</sup>	
ETHYL ACETATE	WEL	200 ppm		400 ppm		
HYDROCARBONS C7-C9,n-alkanes,isoalkanes,cyclics	WEL	200 ppm	1,000 mg/m <sup>3</sup>			
TOLUENE		50	191	100	384	

WEL = Workplace Exposure Limit.

**THIXOFIX (Improved)****TOLUENE (CAS: 108-88-3)**

DNEL				
Consumer	Oral	Long Term	Systemic Effects	8.13 mg/m3
Industry	Dermal	Long Term	Systemic Effects	384 mg/kg/day
Consumer	Inhalation.	Short Term	Local Effects	226 mg/m3
Consumer	Inhalation.	Short Term	Systemic Effects	226 mg/m3
Industry	Inhalation.	Short Term	Systemic Effects	384 mg/m3
Industry	Inhalation.	Short Term	Local Effects	384 mg/m3
Industry	Inhalation.	Long Term	Local Effects	192 mg/m3
Consumer	Inhalation.	Long Term	Systemic Effects	56.5 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	192 mg/m3
PNEC				
Industry	Freshwater	0.68	mg/l	
Industry	Sediment (Freshwater)	16.39	mg/kg	
Industry	STP	13.61	mg/l	
Industry	Soil	2.89	mg/kg	

**ACETONE (CAS: 67-64-1)**

## Ingredient Comments

WEL = Workplace Exposure Limits

## DNEL

Industry	Dermal	Short Term	Systemic Effects	186 mg/m3
Industry	Inhalation.	Short Term	Systemic Effects	2420 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	1210 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	62 mg/m3
Consumer	Inhalation.	Long Term	Systemic Effects	200 mg/m3
Consumer	Oral	Long Term	Systemic Effects	62 mg/m3
Dermal	Long Term	Systemic Effects	186	mg/kg/day
PNEC				
Industry	Freshwater	Long Term	10.6 mg/l	
Industry	Marinewater	Long Term	1.06 mg/l	
Industry	Intermittent release	Intermittent release	21 mg/l	
Industry	Sediment (Freshwater)	Long Term	30.4 mg/l	
Industry	Sediment (Marinewater)	Long Term	3.04 mg/l	
Industry	Soil	Long Term	29.5 mg/kg	
Industry	STP	Long Term	100 mg/l	

**BUTANONE (CAS: 78-93-3)**

DNEL				
Consumer	Oral	Long Term	Systemic Effects	31 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	412 mg/kg/day
Industry	Dermal	Long Term	Systemic Effects	1 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	106 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	600 mg/m3
PNEC				
Freshwater	Long Term	55.8	mg/l	
Marinewater	Long Term	55.8	mg/l	
Intermittent release	Intermittent release	55.8	mg/l	
STP	Long Term	709	mg/l	
Sediment	Long Term	284.7	mg/kg	
Soil	Long Term	22.5	mg/kg	

**ETHYL ACETATE (CAS: 141-78-6)**

DNEL				
Industry	Inhalation.	Short Term	Systemic Effects	1468 mg/m3
Industry	Inhalation.	Short Term	Local Effects	1468 mg/m3
Consumer	Inhalation.	Short Term	Systemic Effects	734 mg/m3
Consumer	Inhalation.	Short Term	Local Effects	374 mg/m3
Industry	Inhalation.	Long Term	Local Effects	734 mg/m3
Industry	Dermal	Long Term	Systemic Effects	63 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	734 mg/m3
PNEC				
Industry	Freshwater	Long Term	0.26 mg/l	
Industry	Marinewater	Long Term	0.026 mg/l	
Industry	Intermittent release	Intermittent release	1.65 mg/l	
Industry	Sediment (Freshwater)	Long Term	1.25 mg/kg	
Industry	Sediment (Marinewater)	Long Term	0.125 mg/kg	
Industry	Soil	Long Term	0.24 mg/kg	
Industry	STP	Long Term	650 mg/l	

**HYDROCARBONS C7- C9,n-alkanes,isoalkanes,cyclics**

## Ingredient Comments

**THIXOFIX (Improved)**

No exposure limits noted for ingredient(s).

DNEL					
Consumer	Oral	Long Term	Systemic Effects	699 mg/kg/day	
Consumer	Dermal	Long Term	Systemic Effects	699 mg/kg/day	
Industry	Dermal	Long Term	Systemic Effects	733 mg/kg/day	
Consumer	Inhalation.	Long Term	Systemic Effects	608 mg/m <sup>3</sup>	
Industry	Inhalation.	Long Term	Systemic Effects	2035 mg/m <sup>3</sup>	

**8.2. Exposure controls**

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

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

Respiratory equipment

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P3).

Hand protection

Use protective gloves made of: Nitrile.

Eye protection

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

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash promptly with soap & water if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	Coloured gel.
Colour	Amber.
Odour	Organic solvents.
Solubility	Slightly soluble in water.
Relative density	0.85 - 0.86 @ 20 °c
Viscosity	GEL @ 23 °c
Flash point	-5 CC (Closed cup).
Flammability Limit - Lower(%)	1
Flammability Limit - Upper(%)	13

**9.2. Other information****SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not applicable.

Hazardous Polymerisation

Not relevant

**10.4. Conditions to avoid**

Avoid exposure to high temperatures or direct sunlight.

**THIXOFIX (Improved)****10.5. Incompatible materials**

Materials To Avoid

No incompatible groups noted.

**10.6. Hazardous decomposition products**Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl).**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Inhalation

When working extensively on big surfaces in small and badly ventilated rooms, vapours may develop in concentrations which may cause headache and irritation of the eyes and the respiratory system. Vapours may cause drowsiness and dizziness.

Skin contact

Irritating to skin.

Eye contact

Irritating to eyes.

Toxicological information on ingredients.Toxic Dose 1 - LD 50  
12705 mg/kg (oral rat)**CYCLOHEXANE (CAS: 110-82-7)**Toxic Dose 1 - LD 50  
> 2000 mg/kg (oral rat)  
Toxic Dose 2 - LD 50  
> 2000 mg/kg (oral-rbt)  
Toxic Conc. - LC 50  
> 20 ppm/4h (inh-rat)**TOLUENE (CAS: 108-88-3)****FORMALDEHYDE ...% (CAS: 50-00-0)**Acute toxicity:Acute Toxicity (Oral LD50)  
100 mg/kg RatAcute Toxicity (Dermal LD50)  
270 mg/kg Rabbit  
Acute Toxicity (Inhalation LC50)  
165 ppmV (gas) Rat**ACETONE (CAS: 67-64-1)**Toxic Conc. - LC 50  
>20 mg/l/4h (inh-rat)Acute toxicity:Acute Toxicity (Oral LD50)  
5800 mg/kg RatAcute Toxicity (Dermal LD50)  
2000 mg/kg Rabbit

**THIXOFIX (Improved)**  
**BUTANONE (CAS: 78-93-3)**

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 5000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 5000 mg/l (vapours) Rat 4 hours

**ETHYL ACETATE (CAS: 141-78-6)**

Acute toxicity:

Acute Toxicity (Oral LD50)

4100 mg/kg Mouse

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 30 mg/l (vapours) Rat

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Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

**HYDROCARBONS C7- C9,n-alkanes,isoalkanes,cyclics**

Toxic Dose 1 - LD 50

>5, 480 mg/kg (oral rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

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**SECTION 12: ECOLOGICAL INFORMATION**

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Ecotoxicity

Dangerous for the environment if discharged into watercourses. The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

**12.1. Toxicity**

**THIXOFIX (Improved)**Ecological information on ingredients.**CYCLOHEXANE (CAS: 110-82-7)**

LC 50, 96 Hrs, Fish mg/l  
42.3

**TOLUENE (CAS: 108-88-3)**

LC 50, 96 Hrs, Fish mg/l  
>1<10  
Acute Toxicity - Fish  
LC50 96 hours 13 mg/l Carassius auratus (Goldfish)  
NOEC 192 hours >1-< 10 mg/l Freshwater fish  
Acute Toxicity - Aquatic Invertebrates  
EC50 48 hours 11.5 mg/l Daphnia magna  
IC 50, 72 Hrs, Algae, mg/l  
>100  
Acute Toxicity - Aquatic Plants  
IC50 72 hours 12 mg/l Selenastrum capricornutum

**FORMALDEHYDE ...% (CAS: 50-00-0)**

Acute Toxicity - Fish  
LC50 96 hours 24.8 mg/l Onchorhynchus mykiss (Rainbow trout)  
Acute Toxicity - Aquatic Invertebrates  
EC50 48 hours > 4.3 mg/l Daphnia magna  
Acute Toxicity - Microorganisms  
EC50 30 min 1995 mg/l Activated sludge

**ACETONE (CAS: 67-64-1)**

LC 50, 96 Hrs, Fish mg/l  
>100  
EC 50, 48 Hrs, Daphnia, mg/l  
8300  
IC 50, 72 Hrs, Algae, mg/l  
>100  
Chronic Toxicity - Aquatic Invertebrates  
NOEC 28 days > 10-<100 mg/l Freshwater invertebrates

**BUTANONE (CAS: 78-93-3)**

Acute Toxicity - Fish  
LC50 96 hours 2993 mg/l Pimephales promelas (Fat-head Minnow)  
Acute Toxicity - Aquatic Invertebrates  
EC50 48 hours 308 mg/l Daphnia magna  
Acute Toxicity - Aquatic Plants  
EC50 96 hours 2029 Freshwater algae  
Acute Toxicity - Microorganisms  
EC50 96 hours > 50 mg/l Activated sludge

**ETHYL ACETATE (CAS: 141-78-6)**

Acute Toxicity - Fish  
LC50 96 hours 230 mg/l Pimephales promelas (Fat-head Minnow)  
NOEC 192 hours > 9.65 mg/l Pimephales promelas (Fat-head Minnow)  
Acute Toxicity - Aquatic Invertebrates  
EC50 48 hours 610 mg/l Daphnia magna  
NOEC 192 hours 2.4 mg/l Daphnia magna  
Acute Toxicity - Aquatic Plants  
EC50 48 hours 5, 600 mg/l Freshwater algae

**HYDROCARBONS C7- C9,n-alkanes.isoalkanes.cyclics**

LC 50, 96 Hrs, Fish mg/l  
1-10  
EC 50, 48 Hrs, Daphnia, mg/l  
10-100

**12.2. Persistence and degradability**

**THIXOFIX (Improved)****Degradability**

The product is expected to be biodegradable.

Ecological information on ingredients.**TOLUENE (CAS: 108-88-3)****Degradability**

The product is easily biodegradable.

Biological Oxygen Demand

1.23 g O<sub>2</sub>/g substance

**ACETONE (CAS: 67-64-1)****Degradability**

The product is easily biodegradable.

**BUTANONE (CAS: 78-93-3)****Degradability**

The product is biodegradable.

Biodegradation

Air. Degradation (98%) 28 days

readily biodegradable

**ETHYL ACETATE (CAS: 141-78-6)****Degradability**

The product is easily biodegradable.

**12.3. Bioaccumulative potential**

Bioaccumulative potential

No data available on bioaccumulation.

Ecological information on ingredients.**TOLUENE (CAS: 108-88-3)**

Bioaccumulative potential

The product is not bioaccumulating.

**BUTANONE (CAS: 78-93-3)**

Bioaccumulative potential

The product is not bioaccumulating.

**ETHYL ACETATE (CAS: 141-78-6)**

Bioaccumulative potential

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

Bioaccumulation factor

BCF 30 *Leuciscus idus* (Golden orfe)

readily biodegradable

**12.4. Mobility in soil**

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

Ecological information on ingredients.**TOLUENE (CAS: 108-88-3)**

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

**BUTANONE (CAS: 78-93-3)**

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

**ETHYL ACETATE (CAS: 141-78-6)**

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

Adsorption/Desorption Coefficient

Soil Koc 1.43 25

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

This product does not contain any PBT or vPvB substances.

**THIXOFIX (Improved)**Ecological information on ingredients.**TOLUENE (CAS: 108-88-3)**

This product does not contain any PBT or vPvB substances.

**ACETONE (CAS: 67-64-1)**

This product does not contain any PBT or vPvB substances.

**ETHYL ACETATE (CAS: 141-78-6)**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects****SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

UN No. (ADR/RID/ADN)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133

**14.2. UN proper shipping name**

Proper Shipping Name                      ADHESIVES (CYCLOHEXANE)

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

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	

**14.4. Packing group**

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

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant



**THIXOFIX (Improved)****14.6. Special precautions for user**

EMS	F-E, S-D
Emergency Action Code	•3YE
Hazard No. (ADR)	33
Tunnel Restriction Code	(D/E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code****SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Uk Regulatory References

Petroleum (Consolidation) Act, as amended 1984 SI 1244.

Environmental Listing

Control of Pollution Act 1974.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

System of specific information relating to Dangerous Preparations. 2001/58/EC.

National Regulations

Health and Safety at Work Act (As Amended) 1974

Water hazard classification

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

Abbreviations and acronyms used in the safety data sheet

ADR : European Agreement concerning the International Transport of Dangerous Goods by Road RID : Regulations Concerning the International Transport of Dangerous Goods by Rail IMDG : International Maritime Code for Dangerous Goods IATA : International Air Transport Association ICAO : International Civil Aviation Organization GHS : Globally Harmonized System of Classification and Labelling of Chemicals EINECS : European Inventory of Existing Commercial Chemical Substances CAS : Chemical Abstracts Service DNEL ; Derived No Effect Level (REACH) PNEC : Predicted No Effect Concentration (REACH) LC50 : Lethal Concentration 50 percent LD50 : Lethal Dose 50 percent

Information Sources

Dangerous Properties of Industrial Materials Report, N.Sax et.al.

Revision Comments

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

Revision Date NOVEMBER 2012

Revision 12

Risk Phrases In Full

R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R66	Repeated exposure may cause skin dryness or cracking.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**THIXOFIX (Improved)**

## Hazard Statements In Full

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
H411	Toxic to aquatic life with long lasting effects.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

## Disclaimer

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.