

## SAFETY DATA SHEET

### Hypabond Part A

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

##### 1.1. Product identifier

Product name Hypabond Part A

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

Identified uses Adhesive.

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

Supplier Trade Grade Products Ltd.  
10,Victory Close  
Woolsbridge Industrial Park  
Three Legged Cross  
Wimbourne,Dorset  
BH 21 6SX  
01202 820177  
01202 814011

##### 1.4. Emergency telephone number

#### SECTION 2: HAZARDS IDENTIFICATION

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

Classification (1999/45/EEC) Xn;R48/20. Repr. Cat. 3;R63. Xi;R36/38. F;R11. N;R51/53. R67.

Human health

The product is irritating to eyes and skin. Contains a substance/a group of substances which may cause harm to the unborn child.

Environment

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Physical and Chemical Hazards

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

##### 2.2. Label elements

Contains TOLUENE

Labelling



Harmful



Highly flammable



Dangerous for the environment

Risk Phrases

R11	Highly flammable
R36/38	Irritating to eyes and skin.
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.
R63	Possible risk of harm to the unborn child.
R67	Vapours may cause drowsiness and dizziness.

Safety Phrases

S16	Keep away from sources of ignition - No smoking.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37	Wear suitable protective clothing and gloves.
S51	Use only in well-ventilated areas.

## Hypabond Part A

**2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

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	
TOLUENE		10-30%
CAS-No.: 108-88-3	EC No.: 203-625-9	Registration Number: 01-2119471310-51
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	Classification (67/548/EEC) F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67	
Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,<5%n-hexane		10-30%
CAS-No.:	EC No.: 921-024-6	Registration Number: 01-2119475514-35
Classification (EC 1272/2008) Flam. Liq. 2 - H225 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. R67.	
Hydrocarbons,C6 isoalkanes< 5% n-hexane		5-10%
CAS-No.:	EC No.: 931-254-9	Registration Number: 01-2119484651-34
Classification (EC 1272/2008) Flam. Liq. 2 - H225 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. R67.	
ZINC OXIDE		<1%
CAS-No.: 1314-13-2	EC No.: 215-222-5	
Classification (EC 1272/2008) Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) N;R50/53.	

## Hypabond Part A

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

### Composition Comments

Polychloroprene based adhesive in petroleum solvent

## 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.

## Hypabond Part A

### 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.

#### **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
BUTANONE	WEL	200 ppm(Sk)	600 mg/m3(Sk)	300 ppm(Sk)	899 mg/m3(Sk)	
TOLUENE		50	191	100	384	
ZINC OXIDE	WEL		5 mg/m3		10 mg/m3	

WEL = Workplace Exposure Limit.

**Hypabond Part A****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	

**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	1161 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 (Marinewater)	Long Term	284.7	mg/kg	
Soil	Long Term	22.5	mg/kg	
Sediment (Freshwater)	284.7	mg/kg		

**Butylated reaction product of p-cresol & dicyclopentadiene (CAS: 68610-51-5)**

DNEL				
Industry	Oral	Long Term	Systemic Effects	0.8 mg/kg/day
Industry	Dermal	Long Term	Systemic Effects	4 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	0.35 mg/m3
PNEC				
STP	150.9	mg/l		

**Hydrocarbons, C6 isoalkanes < 5% n-hexane**

## Ingredient Comments

No exposure limits noted for ingredient(s).

DNEL				
Industry	Dermal	Long Term	Systemic Effects	13, 964 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	5, 306 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	1, 377 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	1, 131 mg/m3
Consumer	Oral	Long Term	Systemic Effects	1301 mg/kg/day

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

DNEL				
Consumer	Oral	Long Term	Systemic Effects	699 mg/kg/day
Industry	Oral	Long Term	Systemic Effects	2035 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	699 mg/kg/day
Dermal	Long Term	Systemic Effects	773	mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	608 mg/m3

**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. Maintain efficient ventilation/extraction using flameproof equipment where necessary.

## Hypabond Part A

### 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	Liquid
Colour	Cream.
Odour	of solvents
Viscosity	2, 700 - 3, 300 cP @ 25 °c
Flash point (°C)	FLASH POINT - 9 CC (Closed cup).
Flammability Limit - Lower(%)	0.9
Flammability Limit - Upper(%)	11.5

### 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 heat, flames and other sources of ignition.

### 10.5. Incompatible materials

Materials To Avoid

No incompatible groups noted.

### 10.6. Hazardous decomposition products

Fire creates: Flammable 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

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness.

#### Ingestion

May cause stomach pain or vomiting.

## Hypabond Part A

### Skin contact

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin.

### Eye contact

Irritating to eyes.

### Route of entry

Inhalation. Skin absorption.

### Specific effects

Contains a substance/a group of substances which may cause harm to the unborn child.

#### Toxicological information on ingredients.

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

Toxic Dose 1 - LD 50

> 5000 mg/kg (oral rat)

Toxic Conc. - LC 50

> 20 ppm/4h (inh-rat)

#### Acute toxicity:

Acute Toxicity (Dermal LD50)

> 5000 mg/kg Rabbit

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

#### Acute toxicity:

Acute Toxicity (Oral LD50)

> 2193 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 5000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 5000 mg/l (vapours) Rat 4 hours

#### HYDROCARBON RESIN

#### Hydrocarbons.C6-C7.n-alkanes.isoalkanes.cyclics.<5%n-hexane

#### Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

## SECTION 12: ECOLOGICAL INFORMATION

### 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

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

Acute Toxicity - Fish

LC50 96 hours 13 mg/l Carassius auratus (Goldfish)

LC50 96 hours 24 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 11.5 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

IC50 72 hours 12 mg/l Selenastrum capricornutum

Acute Toxicity - Microorganisms

NOEC 29 mg/l Activated sludge

**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 &gt; 50 mg/l Activated sludge

**ZINC OXIDE (CAS: 1314-13-2)**

LC 50, 96 Hrs, Fish mg/l

1.1

EC 50, 48 Hrs, Daphnia, mg/l

&gt; 1000

IC 50, 72 Hrs, Algae, mg/l

0.1- 1

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

LC 50, 96 Hrs, Fish mg/l

1 - 10

Acute Toxicity - Fish

NOEC 1 - 10 mg/l

IC 50, 72 Hrs, Algae, mg/l

10 - 100

Acute Toxicity - Microorganisms

EC50 1 - 10 mg/l Activated sludge

**12.2. Persistence and degradability**

Degradability

The product is slowly degradable.

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

Degradability

The product is easily biodegradable.

Biodegradation

Degradation (86%) 20 days

readily biodegradable

Biological Oxygen Demand

1.23 g O<sub>2</sub>/g substance**BUTANONE (CAS: 78-93-3)**

Degradability

The product is biodegradable.

Biodegradation

Air. Degradation (98%) 28 days

readily biodegradable

**12.3. Bioaccumulative potential**



## Hypabond Part A

Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Ecological information on ingredients.

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

Bioaccumulative potential

The product is not bioaccumulating.

Bioaccumulation factor

BCF 90

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

Bioaccumulative potential

The product is not bioaccumulating.

### **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.

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

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

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

This product does not contain any PBT or vPvB substances.

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

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 (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5%n-hexane)

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

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3

**Hypabond Part A**

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

**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

Rivers (Prevention of Pollution) Act 1961.

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

Control of Substances Hazardous to Health Regulations 2002 (as amended)

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

