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Safety Data Sheet

InsuDek



Adhesive Systems

Section 1: Identification of the article and the company

1.1. Identification: InsuDek Insulation Adhesive
1.2. Use: Industrial use adhesive, binding agent

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

Fixfast Ltd
 Merlin House
 Seven Mile Lane
 Borough Green
 Sevenoaks
 Kent
 TN15 8QY

1.4. Emergency telephone: +44 (0) 800 304 7616 (Monday - Friday, normal office hours only)

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Respiratory sensitisation, Category 1 H334

Skin sensitisation, Category 1 H317

Carcinogenicity, Category 2 H351

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) :



GHS08



GHS07

Signal word (CLP) : Danger

Hazardous ingredients : DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H351 - Suspected of causing cancer

Precautionary statements (CLP) : P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P284 - Wear respiratory protection.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P321 - Specific treatment (see supplemental first aid instruction on this label).
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P405 - Store locked up.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements : EUH204 - Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards No additional information available

Section 3: Composition/information on ingredients**3.1 Substances**

Not applicable

Name	Product identifier	%	Classification According to Reg. (EC) 1278/2008 (CLP)
DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)	(CAS-No.) 9016-87-9 (EC Index-No.) 615-005-01-6	1-5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

Full text of H-statements: see section 16

Section 4: First aid measures**4.1 Description of first aid measures****General information:**

IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

After contact with eyes :

Rinse with water as a precaution.

After contact with skin :

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

After ingestion :

Call a poison centre or doctor if you feel unwell

After inhalation :

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

4.2 Most important symptoms and effects. Both acute & delayed :

Symptoms/effects after inhalation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact

May cause allergic skin reaction.

Symptoms/effects after eye contact

May cause eye irritation.

Symptoms/effects after ingestion

Harmful if swallowed. Ingestion may cause nausea and vomiting.

4.3 Indication of any immediate medical attention & special treatment needed :

Treat symptomatically.

Section 5: Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media:

Water spray. Dry powder. Carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

Toxic fumes may be released.

5.3 Advice for firefighters

Protection during firefighting

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Clean up any spills as soon as possible, using an absorbent material to collect it.

6.1.1 For non-emergency personnel

Protective equipment Wear recommended personal protective equipment.
Emergency measures Ventilate spillage area. Avoid contact with skin and eyes.
Avoid breathing dust/fume/gas/mist/vapours/spray

6.1.2 For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection"
Emergency measures Ventilate area.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For containment Absorb spilled material with sand or earth.
Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

6.4 Reference to other sections

For further information refer to section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling:

Precautions for safe handling Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures Comply with applicable regulations
Storage conditions Store locked up. Store in a well-ventilated place. Keep cool.
Incompatible products Oxidizing agent. Strong acids.
Storage temperature 10 - 30 °C
Storage area Store away from heat. Store in a well-ventilated area.
Special rules on packaging Keep only in original container Store in a closed container.
Packaging materials Keep only in the original container in a cool, well ventilated place away from combustible materials

7.3. Specific end use(s):

No additional information available

Section 8: Exposure controls/personal protection

8.1. Control parameters:

Name	Product identifier	%
United Kingdom	Local name	Isocyanates
United Kingdom	WEL TWA (mg/m³)	0.02 mg/m³ all (as –NCO) Except methyl isocyanate
United Kingdom	WEL STEL (mg/m³)	0.07 mg/m³ all (as –NCO) Except methyl isocyanate
United Kingdom	Remark (WEL)	Sen (Capable of causing occupational asthma)
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Monitoring methods		
Monitoring methods	Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents	
Biological Monitoring	Yes	
Biological Monitoring methods	Analysis of urine samples	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Provide local exhaust or general room ventilation.

Hand protection:					
Protective gloves					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)			EN 374
Eye Protection:					
Safety glasses					
Type	Use		Characteristics	Standard	
Safety glasses	Droplet		With side shields	EN 166	
Skin & body protection:					
Wear protective clothing					
Type			Standard		
Tyvek Gown/Coveralls			EN 1073, EN 1149		
Respiratory protection					
(In case of inadequate ventilation) wear respiratory protection.					
Device	Filter type		Condition	Standard	
Reusable half mask	ABEK-P3		Vapour protection	EN 14387	

Personal protective equipment symbols(s):



Environmental exposure control:

Avoid release to the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical state	Liquid
Colour	Pale brown
Odour	Barely perceptible odour
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	> 200°C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	1.08 - 1.15 @ 20°C
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	7000 - 10000 cP @ 20°C
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2. Other information:

No additional information available.

Section 10: Stability and reactivity

10.1. Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability:

Stable under normal conditions

10.3. Possibility of hazardous reactions:

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid:

None under recommended storage and handling conditions (see section 7)

10.5. Incompatible materials:

No additional information available

10.6. Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological information

Acute toxicity (oral):	Not classified.
Acute toxicity (dermal):	Not classified.
Acute toxicity inhalation :	Not classified.

Diphenylmethane Diisocyanate (Isomers and Homologues) (9016-87-9)

LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat (Vapours - mg/1/4h)	490 mg/1/hr

Section 11: Toxicological information - continued

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause allergy or asthma or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Suspected of causing cancer
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

Section 12: Ecological information**12.1. Toxicity:**

Ecology - general

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity

Not classified

Chronic aquatic toxicity

Not classified

12.2. Persistence and degradability:**Monobond Insulation Adhesive**

Persistence and degradability

Biodegradability in water: no data available

12.3. Bioaccumulative potential:**Monobond Insulation Adhesive**

Bioaccumulation potential

No bioaccumulation data available

12.4. Mobility in soil:

No additional information available

12.5. Results of PBT and vPvB assessment:

No additional information available

12.5. Other adverse effects:

No additional information available

Section 13: Disposal considerations**13.1. Waste Treatment methods**

Regional legislation (waste)

Disposal must be done according to official regulations.

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

hazardous or special waste collection point.

European List of Waste (LoW) code

08 05 01* - waste isocyanates.

Section 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4 Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5 Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

Section 14: Transport information - continued**14.6 Special precautions for user**

Overland transport	Not regulated
Transport by sea	Not regulated
Air transport	Not regulated
Inland waterway transport	Not regulated
Rail transport	Not regulated

14.7. Transport in bulk according to Annex II of Marpol 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**

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Directive 2012/18/EU (SEVESO III)

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**Full text of H- and EUH-statements:**

Acute Tox.4	Acute toxicity (inhal.), Category 4
Carc.2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
EUH204	Contains isocyanates. May produce an allergic reaction



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