

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/3/2015 Revision date: 10/28/2016 Version: 3.0

## DRIVING SURFACE PERFECTION

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

1.1. Product identifier

Product form : Mixtures
Product name : TIG/C

Product group : Adhesives, sealants

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Function or use category : Adhesives, binding agents

#### 1.2.2. Uses advised against

No additional information available

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

**U-POL LIMITED** 

Denington Road, Wellingborough Northants. NN8 2QH - UK

T +44 (0) 1933 230310 - F +44 (0) 1933 425797 technical.department@u-pol.com - www.u-pol.com

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 870 8200418

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302
Acute toxicity (dermal), Category 4 H312
Acute toxicity (inhalation:dust,mist) Category 4 H332
Sensitisation — Respiratory, Category 1 H334
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Full text of hazard classes and H-statements : see section 16

#### 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

GHS08

Signal word (CLP) : Danger

Hazardous ingredients : 4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate; 4,4-

METHYLENDIPHENYLDIISOCYANAT, OLIGOMERE

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Hazard statements (CLP) : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood

P261 - Avoid breathing mist, vapours, spray P264 - Wash hands thoroughly after handling

P280 - Wear eye protection, protective clothing, protective gloves

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342+P311 - If experiencing respiratory symptoms: Call a doctor

: EUH204 - Contains isocyanates. May produce an allergic reaction

EUH208 - Contains 4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate, 4,4-METHYLENDIPHENYLDIISOCYANAT, OLIGOMERE. May produce an allergic reaction

#### 2.3. Other hazards

**EUH-statements** 

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene (Note C)	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32	5 - 23	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
ETHYL BENZENE	(CAS No) 100-41-4 (EC no) 202-849-4 (REACH-no) 01-2119489370-35	< 5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (Note C)(Note 2)	(CAS No) 101-68-8 (EC no) 202-966-0 (EC index no) 615-005-00-9	< 5	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
4,4-METHYLENDIPHENYLDIISOCYANAT, OLIGOMERE	(CAS No) 25686-28-6 (EC no) 500-040-3	< 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

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-	(CAS No) 101-68-8	(C >= 0.1) Resp. Sens. 1, H334
diisocyanate	(EC no) 202-966-0	(C >= 5) STOT SE 3, H335
	(EC index no) 615-005-00-9	(C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319

Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of 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. Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a doctor. Call a POISON CENTER or doctor/physician.

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First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a POISON CENTER or doctor/physician. Wash with

plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

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

respiratory irritation.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Harmful in contact with skin.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Self-contained breathing apparatus.

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

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Collect spillage. Contain released substance, pump into suitable containers.

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away

from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Ignition sources,

Heat sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition

of vapour. Use only outdoors or in a well-ventilated area. Avoid breathing mist, vapours, spray.

sources. No smoking. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : < 25 °C

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Storage area : Keep out of direct sunlight. Store in a well-ventilated place. Protect against frost. Store in a dry

area.

Special rules on packaging : Store in a closed container. Keep only in original container. dry.

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

No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

xylene (1330-20-7)		
EU	Local name	Xylene, mixed isomers, pure
EU	IOELV TWA (mg/m³)	221 mg/m³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m³)	442 mg/m³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Skin
United Kingdom	Local name	Xylene, o-,m-,p- or mixed isomers
United Kingdom	WEL TWA (mg/m³)	220 mg/m³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m³)	441 mg/m³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Materials for protective clothing:

Impermeable clothing

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection

Other information : Do not eat, drink or smoke during use.

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

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

Physical state: SolidAppearance: Paste.Colour: Various.Odour: aromatic.

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : > 100 °C

Auto-ignition temperature : > 200 °C

Decomposition temperature : No data available

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Flammability (solid, gas) : Non flammable Vapour pressure :  $< 100 \text{ hPa} \ @ 20^{\circ}\text{C}$  Relative vapour density at 20 °C : No data available Relative density :  $\approx 1.22 \text{ g/cm}^3$ 

Solubility : insoluble in water. Reacts with water.

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 0.1 vol %
7.8 vol %

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Hydrogen chloride. Nitrogen oxides. Sulphur oxides.

#### SECTION 11: Toxicological information

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation:dust,mist: Harmful if

inhaled.

ATE CLP (oral)	500.000 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

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### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

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Persistence and degradability Not established.

#### 12.3. Bioaccumulative potential

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Bioaccumulative potential Not established.

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

Additional information : Avoid release to the environment

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to Remove waste in accordance with local and/or national regulations.

Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippi	ng name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

### - Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

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

Not applicable

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### **SECTION 15: Regulatory information**

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

#### 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

#### **National regulations** 15.1.2.

No additional information available

#### **Chemical safety assessment**

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE Data sources

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 H- and EUH-statements:

Tall toxt of TT and EoTT diatomories.			
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Carc. 2	Carcinogenicity	, Category 2	
Eye Irrit. 2	Serious eye da	mage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liqu	ids, Category 2	
Flam. Liq. 3	Flammable liqu	ids, Category 3	
Resp. Sens. 1	Sensitisation —	- Respiratory, Category 1	
Skin Irrit. 2	Skin corrosion/i	rritation, Category 2	
Skin Sens. 1	Sensitisation —	- Skin, 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	
H225	Highly flammab	ole liquid and vapour	
H226	Flammable liquid and vapour		
H302	Harmful if swallowed		
H312	Harmful in contact with skin		
H315	Causes skin irri	tation	
H317	May cause an a	allergic skin reaction	
H319	Causes serious eye irritation		
H332	Harmful if inhale	ed	
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		
EUH208	Contains . May produce an allergic reaction		
Acute Tox. 4 (Oral)	H302	Annex VII conversion	
Acute Tox. 4 (Dermal)	H312	Annex VII conversion	
Acute Tox. 4 (Inhalation:dust,mist)	H332	Annex VII conversion	
Poen Sone 1	<b>⊔</b> 224	Appey VIII conversion	

Acute Tox. 4 (Oral)	П3U2	Affilex vii conversion
Acute Tox. 4 (Dermal)	H312	Annex VII conversion
Acute Tox. 4 (Inhalation:dust,mist)	H332	Annex VII conversion
Resp. Sens. 1	H334	Annex VII conversion
STOT SE 3	H335	Calculation method

UPOL SDS EU (no product code)

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