
SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

0890 023 801 - Windscreen Adhesive Ultimate 310ml

Version 2.1	Revision Date 20.01.2015	Print Date 22.01.2015	GB / EN
	Date of last issue: 24.06.2014		
	Date of first issue: 22.12.2009		

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial Product Name : Windscreen Adhesive Ultimate 310ml
Product code : 0890 023 801
SDS-Identcode : 10033313

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

Use of the Substance/Mixture : Adhesives, Sealant

1.3 Details of the supplier of the safety data sheet

Company : Würth UK Ltd
1 Centurion Way
Erith, Kent
United Kingdom
Telephone : +44 (0)3300 555 444
Telefax : +44 (0)3300 555 666
Company : WÜRTH IRELAND LTD.
Monaclinoe Ind. Est. Ballysimon Road
Limerick
Ireland
Telephone : +353 61 430200
Telefax : +353 61 412428

Responsible/issuing person : E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone number

National Chemical Emergency Centre
+44 (0)870 190 6777

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Classification (67/548/EEC, 1999/45/EC)

Sensitising R42: May cause sensitisation by inhalation.

2.2 Label elements

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	Registration number			
4,4'-methylenediphenyl diisocyanate	101-68-8	Carc.Cat.3; R40 Xn; R20-R48/20 Xi; R36/37/38 R42/43	Acute Tox. 4; 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	>= 0,75 - < 1
	202-966-0			
	01-2119457014-47			
Hexamethylene-diisocyanate, polymer	28182-81-2	Xn; R20 Xi; R37 R43	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335	>= 0,75 - < 1
	500-060-2			
	01-2119488934-20			

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures

- General advice : Symptoms of poisoning may appear several hours later. Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- If inhaled : If breathed in, move person into fresh air. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person

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vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire. Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist.

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6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Do not flush with water. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8. Use with local exhaust ventilation. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Handle with care. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep in a well-ventilated place. Do not keep the container sealed.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Never allow product to get in contact with water during storage.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	Control parameters	Basis	Update
MDI Prepolymer		TWA: 0,02 mg/m ³ , 53+54, 55, Sen, 56, STEL: 0,07 mg/m ³ , 53+54, 55, Sen, 56,	GB EH40	2011-12-01
Carbon black	1333-86-4	TWA: 3,5 mg/m ³ , STEL: 7 mg/m ³ ,	GB EH40	2005-04-06
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA: 0,02 mg/m ³ , 53+54, 55, Sen, 56, STEL: 0,07 mg/m ³ , 53+54, 55, Sen, 56,	GB EH40	2011-12-01
Hexamethylene-di-isocyanate, polymer	28182-81-2	TWA: 0,02 mg/m ³ , 53+54, 55, Sen, 56, STEL: 0,07 mg/m ³ , 53+54, 55, Sen, 56,	GB EH40	2011-12-01

Other information on limit values: see chapter 16

8.2 Exposure controls**Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

Highly effective exhaust ventilation

Personal protective equipment**Respiratory protection**

: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

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Hand protection

Material : Fluorinated rubber
Glove thickness : 0,4 mm
Break through time: : > 30 min
Directive : DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Safety glasses with side-shields
Eye wash bottle with pure water

Skin and body protection : Wear suitable protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Take off all contaminated clothing immediately.
Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

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Appearance	: paste
Colour	: black
Odour	: characteristic
Odour Threshold	: No data available
Flash point	: > 101 °C
Ignition temperature	: No data available
Thermal decomposition	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Explosive properties	: No data available
Flammability	: No data available
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
Burning number	: No data available
Molecular weight	: No data available
pH	: No data available
Vapour pressure	: No data available
Density	: ca. 1,22 g/cm ³ at 20 °C
Bulk density	: No data available
Water solubility	: Reacts with water.
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 7 mm ² /s at 40 °C
Flow time	: No data available
Impact sensitivity	: No data available
Relative vapour density	: No data available
Surface tension	: No data available
Evaporation rate	: No data available
Minimum ignition energy	: No data available
Acid number	: No data available
Refraction index	: No data available
Miscibility in water	: No data available
Solvent separation test	: No data available

9.2 Other information

None known.

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SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability : No decomposition if stored and applied as directed.
Evolution of CO₂ in closed containers causes overpressure and produces a risk of bursting. Mixture reacts slowly with water resulting in evolution of CO₂.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Materials to avoid : Water

10.6 Hazardous decomposition products

Hazardous decomposition products : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity:

4,4'-methylenediphenyl diisocyanate : LD50 Rat: > 2.000 mg/kg

Hexamethylene-di-isocyanate, polymer : LD50 Rat, female: > 2.500 mg/kg

Acute inhalation toxicity:

4,4'-methylenediphenyl diisocyanate : LC50 Rat: > 2,24 mg/l
Test atmosphere: dust/mist

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Exposure time: 1 h

LC50 Rat: 0,49 mg/l

Test atmosphere: dust/mist

Exposure time: 4 h

Note: Harmful by inhalation.

Hexamethylene-di-isocyanate, polymer : LC50 : > 1 - 5 mg/l
Test atmosphere: dust/mist
Exposure time: 4 h

Acute dermal toxicity:

4,4'-methylenediphenyl diisocyanate : LD50 Rabbit: > 9.400 mg/kg

Hexamethylene-di-isocyanate, polymer : LD50 Rat, male and female: > 2.000 mg/kg
Method: OECD Test Guideline 402

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

4,4'-methylenediphenyl diisocyanate : Species: Rabbit
irritating

Hexamethylene-di-isocyanate, polymer : Species: Rabbit
No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye irritation

4,4'-methylenediphenyl diisocyanate : Species: Rabbit
Eye irritation

Hexamethylene-di-isocyanate, polymer : Species: Rabbit
No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Sensitisation : May cause sensitisation by inhalation.

Germ cell mutagenicity

Genotoxicity in vitro:

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Hexamethylene-di-isocyanate, polymer : with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471

Genotoxicity in vivo:

Hexamethylene-di-isocyanate, polymer : Test species: Mouse
Sex: male and female
Application Route: Oral
Result: negative

Carcinogenicity

Remarks

4,4'-methylenediphenyl diisocyanate : Carcinogenicity:
Limited evidence of carcinogenicity in animal studies

Mutagenicity:
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity

4,4'-methylenediphenyl diisocyanate : Note: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Teratogenicity

No data available

STOT - single exposure

4,4'-methylenediphenyl diisocyanate : May cause respiratory irritation.

Hexamethylene-di-isocyanate, polymer : May cause respiratory irritation.

STOT - repeated exposure

4,4'-methylenediphenyl diisocyanate : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration toxicity

No data available

Neurological effects

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No data available

Toxicology AssessmentToxicology, Metabolism, Distribution

No data available

Acute effects

No data available

Further information

: Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

SECTION 12: Ecological information**12.1 Toxicity**Toxicity to fish4,4'-methylenediphenyl diisocyanate : LC0 (Oryzias latipes (Orange-red killifish)): > 3.000 mg/l
Exposure time: 96 hHexamethylene-di-isocyanate, polymer : LC0 (Danio rerio (zebra fish)): >= 100 mg/l
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates4,4'-methylenediphenyl diisocyanate : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202Hexamethylene-di-isocyanate, polymer : LC50 (Daphnia magna (Water flea)): 127 mg/l
Exposure time: 48 hToxicity to algae4,4'-methylenediphenyl diisocyanate : EC50 : > 1.640 mg/l
Exposure time: 72 hNOEC : 1.640 mg/l
Exposure time: 72 h

Hexamethylene-di-isocyanate, : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): >

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polymer 1.000 mg/l
Exposure time: 72 h

Toxicity to bacteria

4,4'-methylenediphenyl diisocyanate : EC50 : > 100 mg/l
Exposure time: 3 h
Test Method: Respiration inhibition of activated sludge

Hexamethylene-di-isocyanate, polymer : EC50 : 3.828 mg/l
Exposure time: 3 h
Test Method: Respiration inhibition of activated sludge
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

4,4'-methylenediphenyl diisocyanate : NOEC: \geq 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Biodegradability

4,4'-methylenediphenyl diisocyanate : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

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Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose of together with household waste.
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
080409, waste adhesives and sealants containing organic solvents or other dangerous substances

Waste key (used product):
080409, waste adhesives and sealants containing organic solvents or other dangerous substances

Disposal of uncleaned packaging : Waste key (uncleaned packaging):
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

SECTION 14: Transport information**14.1 UN number**

ADN

Not dangerous goods

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADN

Not dangerous goods

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

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Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class(es)

ADN

Not dangerous goods

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADN

Not dangerous goods

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADN

Not dangerous goods

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

see chapter: 6, 7 and 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) < 0,01 %
Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances	:	Update: Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	:	Update: Not applicable

National legislation

Other regulations	:	Take note of Dir 94/33/EC on the protection of young people at work.
Further information	:	Ensure a continuous supply of fresh air during and after operation. Persons who suffer from allergies or who have a chronic disposition to respiratory illness must not be required to work with this material. Reserved for industrial and professional use.

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

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R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R40	Limited evidence of a carcinogenic effect.
R42	May cause sensitisation by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Full text of H-Statements referred to under sections 2 and 3.

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.

Other information

53+54	Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers.
55	Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance.
56	The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.
Sen	Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagens? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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