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A J & A J Hubycki & Oz-Gel Imports Pty Ltd T/as OZ-GEL
ABN: 38 926 088 116



Revision nr. 13
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Page n. 1/16

30565-30575 - GELFLEX 333 GRIGIO

Safety data sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: 30565-30575
Product name: GELFLEX 333 GRIGIO

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use: One-component polyurethane sealant

1.3. Details of the supplier of the safety data sheet

Name: GELSON SRL
Full address: Via Varese 11/13
District and Country: 20020 Lainate (MI) Italia
Tel. +39 02 9370640
Fax +39 02 93797341

e-mail address of the competent person responsible for the Safety Data Sheet: info@gelson.it

Australian distributor: OZ-GEL
236 Maddington Rd
Maddington 6109 Western Australia
ozgel@iinet.net.au

Australian distributor phone number: 0418 913 426 (general information)
Local Distributor

1.4. Emergency telephone number

For urgent inquiries refer to: POISONS INFORMATION CENTRE
Australia Tel. 13 11 26
New Zealand Tel. 0800 764 766

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:
Respiratory sensitization, category 1

H334

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

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 2/16

30565-30575 - GELFLEX 333 GRIGIO

Hazard pictograms:



Signal words: Danger

Hazard statements:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
EUH204 Contains isocyanates. May produce an allergic reaction.
EUH208 Contains:
DIPHENYLMETHANE-4,4'-DIISOCYANATE, DIFENILMETAN-4,4'-DIISOCIANATO

May produce an allergic reaction.

Precautionary statements:

P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: call a POISON CENTER / doctor / . . .

Contains: DIPHENYLMETHANE-4,4'-DIISOCYANATE
DIFENILMETAN-4,4'-DIISOCIANATO

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
XYLENE (MIXTURE OF ISOMERS)		
CAS. 1330-20-7	5 - 9	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C
EC. 215-535-7		
INDEX. 601-022-00-9		
Reg. no. 01-2119486136-34		
ETHYL ACETATE		
CAS. 141-78-6	1 - 5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336,

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 3/16

30565-30575 - GELFLEX 333 GRIGIO

EUH066

EC. 205-500-4

INDEX. 607-022-00-5

Reg. no. 01-2119475103-46

DIFENILMETAN-4,4'-DIISOCIANATO

CAS. 9016-87-9

0,5 - 1

Carc. 2 H351, Acute Tox. 4
H332, STOT RE 2 H373, Eye
Irrit. 2 H319, Skin Irrit. 2
H315, STOT SE 3 H335,
Resp. Sens. 1 H334, Skin
Sens. 1 H317, Note 2 C

EC. 202-966-0

INDEX. 615-005-00-9

DIPHENYLMETHANE-4,4'-DIISOCYANATE

CAS. 101-68-8

0,5 - 1

Carc. 2 H351, Acute Tox. 4
H332, STOT RE 2 H373, Eye
Irrit. 2 H319, Skin Irrit. 2
H315, STOT SE 3 H335,
Resp. Sens. 1 H334, Skin
Sens. 1 H317, Note 2 C

EC. 202-966-0

INDEX. 615-005-00-9

Reg. no. 01-2119457014-47

PHOSPHORIC ACID

CAS. 7664-38-2

0 - 0,5

Skin Corr. 1B H314, Note B

EC. 231-633-2

INDEX. 015-011-00-6

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 4/16

30565-30575 - GELFLEX 333 GRIGIO

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 5/16

30565-30575 - GELFLEX 333 GRIGIO

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Council of Netherlands (SER) Values, AF 2011:18
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	440	100	880	200	SKIN.

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Revision nr. 13
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Printed on 08/08/2017
Page n. 6/16

30565-30575 - GELFLEX 333 GRIGIO

MAK	DEU	440	100	880	200	SKIN.
VLA	ESP	221	50	442	100	SKIN.
VLEP	FRA	221	50	442	100	SKIN.
WEL	GBR	220	50	441	100	
TLV	ITA	221	50	442	100	SKIN.
OEL	NLD	210		442		SKIN.
OEL	EU	221	50	442	100	SKIN.
TLV-ACGIH		434	100	651	150	

ETHYL ACETATE

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	1500	400	3000	800
MAK	DEU	1500	400	3000	800
VLA	ESP	1460	400		
VLEP	FRA	1400	400		
WEL	GBR		200		400
OEL	NLD	550		1100	
TLV-ACGIH		1441	400		

DIFENILMETAN-4,4'-DIISOCIANATO

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
MAK	DEU	0,05		0,05	
VLA	ESP		0,005		
VLEP	FRA	0,1		0,2	
WEL	GBR	0,02		0,07	
TLV-ACGIH		0,051	0,005		

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	0,05		0,05	
MAK	DEU	0,05		0,05	SKIN.
MAK	DEU	0,05		0,05	INHAL.
VLA	ESP	0,052	0,005		
VLEP	FRA	0,1	0,01	0,2	0,02
TLV-ACGIH		0,051	0,005		

Predicted no-effect concentration - PNEC.

Normal value in fresh water	1,1	mg/l
Normal value in marine water	0,11	mg/l
Normal value for fresh water sediment	NEA	
Normal value for marine water sediment	NEA	
Normal value of STP microorganisms	1,1	mg/l

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 7/16

30565-30575 - GELFLEX 333 GRIGIO

Normal value for the food chain (secondary poisoning)

NEA

Normal value for the terrestrial compartment

1,1

mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	VND	20 mg/kg						
Inhalation.	0,05 mg/m3	0,05 mg/m3	0,025 mg/m3	0,025 mg/m3	0,1 mg/m3	0,1 mg/m3	0,05 mg/m3	0,05 mg/m3
Skin.	17,2 mg/kg	25 mg/kg			28,7 mg/kg	50 mg/kg		

PHOSPHORIC ACID

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	2		4	
MAK	DEU	2		4	
VLA	ESP	1		2	
VLEP	FRA	1	0,2	2	0,5
WEL	GBR	1		2	
TLV	ITA	1		2	
OEL	NLD	1		2	
OEL	EU	1		2	
TLV-ACGIH		1		3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 8/16

30565-30575 - GELFLEX 333 GRIGIO

considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	paste
Colour	various
Odour	mild
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	> 60 °C.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,270 Kg/l
Solubility	soluble in organic solvents
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	> 250 °C.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

VOC (Directive 2004/42/EC) :	9,60 % - 121,92 g/litre.
VOC (volatile carbon) :	8,18 % - 103,85 g/litre.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

PHOSPHORIC ACID: decomposes at temperatures over 200°C/392°F.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: decomposes at 274°C/525°F. With water it develops carbon dioxide and forms an insoluble solid polymer. Consequently any wet material recovered must be stored in open containers.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: decomposes at 274°C. With water it develops carbon dioxide and forms an insoluble solid polymer. Consequently any wet material recovered must be stored in open containers.

ETHYL ACETATE: decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 9/16

30565-30575 - GELFLEX 333 GRIGIO

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

PHOSPHORIC ACID: risk of explosion on contact with nitromethane. May react dangerously with alkalis and sodium borohydride.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: can react dangerously with: alcohols, amines, ammonia, sodium hydroxide, acids, water and strong bases and acids.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: can react dangerously with: alcohols, amines, ammonia, sodium hydroxide, acids, water and strong bases and acids.

ETHYL ACETATE: risk of explosion on contact with: metals, alkalis, hydrides. oleum. can react violently with: fluoride, strong oxidising agents, chlorosulfuric acid, potassium tert-butoxide. Forms explosive mixtures with the air.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ETHYL ACETATE: avoid exposure to light, sources of heat and naked flames.

10.5. Incompatible materials.

PHOSPHORIC ACID: Metals, strong alkalis, aldehydes, sulphides and peroxides.

ETHYL ACETATE: acids and bases, strong oxidising agents; aluminium and some plastics, nitrates and chlorosulphuric acid.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

PHOSPHORIC ACID: phosphorus oxide.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: nitric oxides, carbon oxides, hydrogen cyanide.

DIPHENYLMETHANE-4,4'-DIISOCYANATE: nitric oxides, carbon oxides, hydrogen cyanide.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Inhalation of this product causes sensitization, which may then give rise to a series of inflammatory episodes, most of all characterized by obstruction and affecting the respiratory system. Sometimes, sensitization phenomena arise together with evident rhinitis and asthma. Damages to the respiratory system depend on the inhaled quantity, on the product concentration in the working environment and on the exposure time.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 10/16

30565-30575 - GELFLEX 333 GRIGIO

This product contains isocyanates. Producer's specifications are as follows: Ready-to-use products containing isocyanates may irritate mucosas, particularly those of the respiratory system, and may give rise to hypersensitivity reactions. Vapour or aerosol inhalation may lead to sensitization. Please take all the measures used for all solvent-containing products while manipulating isocyanate-containing products. Avoid vapour and aerosol inhalation. People with allergic or asthmatic precedents or subject to respiratory disorders should not handle products containing isocyanates. This product contains sensitizing substance/s and may cause allergic reactions.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.
DIPHENYLMETHANE-4,4'-DIISOCYANATE: risk of sensitization even at concentrations lower than TLV in case of spray working.
DIFENILMETAN-4,4'-DIISOCIANATO: rischio di sensibilizzazione anche a concentrazioni inferiori al TLV in caso di esecuzione di lavori a spruzzo.

PHOSPHORIC ACID
LD50 (Oral).1530 mg/kg Rat
LD50 (Dermal).2740 mg/kg Rabbit
LC50 (Inhalation).> 0,85 mg/l/1h Rat

XYLENE (MIXTURE OF ISOMERS)
LD50 (Oral).3523 mg/kg Rat
LD50 (Dermal).4350 mg/kg Rabbit
LC50 (Inhalation).26 mg/l/4h Rat

DIPHENYLMETHANE-4,4'-DIISOCYANATE
LD50 (Oral).> 2000 mg/kg
LD50 (Dermal).> 9400 mg/kg
LC50 (Inhalation).1,5 mg/l/4h

DIFENILMETAN-4,4'-DIISOCIANATO
LD50 (Oral).> 5000 mg/kg rat
LD50 (Dermal).> 9400 mg/l rabbit; OECD TG 402
LC50 (Inhalation).1,5 mg/l/4h rat; OECD TG 403

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity.

DIPHENYLMETHANE-4,4'-
DIISOCYANATE
LC50 - for Fish. > 1000 mg/l/96h
EC50 - for Crustacea. > 1000 mg/l/48h
EC10 for Algae / Aquatic
Plants. > 1640 mg/l/72h

DIFENILMETAN-4,4'-
DIISOCIANATO
LC50 - for Fish. > 100 mg/l/96h Brachydanio Rerio; OECD TG 203
EC50 - for Crustacea. 83 mg/l/48h Daphnia Magna; OECD TG 202
EC50 - for Algae / Aquatic
Plants. > 100 mg/l/72h Desmodesmus subspicatus; OECD TG 201

12.2. Persistence and degradability.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 11/16

30565-30575 - GELFLEX 333 GRIGIO

Solubility in water. > 850000 mg/l

Biodegradability: Information not available.

XYLENE (MIXTURE OF ISOMERS)

Solubility in water. mg/l 100 - 1000

Biodegradability: Information not available.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Solubility in water. mg/l 0,1 - 100

NOT rapidly biodegradable.

DIFENILMETAN-4,4'-DIISOCIANATO

NOT rapidly biodegradable.

ETHYL ACETATE

Solubility in water. > 10000 mg/l

Rapidly biodegradable.

12.3. Bioaccumulative potential.

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water. 3,12

BCF. 25,9

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Partition coefficient: n-octanol/water. 4,51

BCF. 200

DIFENILMETAN-4,4'-DIISOCIANATO

BCF. < 14

ETHYL ACETATE

Partition coefficient: n-octanol/water. 0,68

BCF. 30

12.4. Mobility in soil.

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ABN: 38 926 088 116



Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 12/16

30565-30575 - GELFLEX 333 GRIGIO

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: 2,73
soil/water.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 13/16

30565-30575 - GELFLEX 333 GRIGIO

Not applicable.

14.6. Special precautions for user.

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point. 3

Contained substance.

Point. 56 DIFENILMETAN-4,4'-
DIISOCIANATO

Point. 56 DIPHENYLMETHAN
E-4,4'-
DIISOCYANATE
Reg. no.: 01-
2119457014-47

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 14/16

30565-30575 - GELFLEX 333 GRIGIO

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (Directive 2004/42/EC) :

Special finishes.

VOC given in g/litre of product in a ready-to-use condition :

Limit value: 840,00

VOC of product : 121,92

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 15/16

30565-30575 - GELFLEX 333 GRIGIO

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labelling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

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Revision nr. 13
Dated 07/07/2016
Printed on 08/08/2017
Page n. 16/16

30565-30575 - GELFLEX 333 GRIGIO

Changes to previous review:
The following sections were modified:
02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.