

# SAFETY DATA SHEET

## J-Seal® PUI-800 (GG)

### SECTION I. SUPPLIER IDENTIFICATION

Name : **CJSA**  
 Address : Unit 2, 18 Farrow Circuit Seaford Rise,  
 South Australia 5169,  
 Australia.

The details and information stated within this SDS have been provided by the manufacturer.  
 Refer to [www.cjsa.net.au](http://www.cjsa.net.au) to obtain the most recent SDS.

### SECTION I.I. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

Product name J-Seal® PUI-800 (GG)

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

Intended use One part polyurethane construction sealant.

<u>Identified Uses</u>	<u>Industrial</u>	<u>Professional</u>	<u>Consumer</u>
SEALANTS AND ADHESIVES FORMULATIONS IN INDUSTRY	SU: 10. ERC: 2. PROC: 3, 4, 5, 8a, 8b, 9. PC: 1.	-	-
INDUSTRIAL APPLICATIONS OF SEALANTS AND ADHESIVES	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	-
CHEMICAL SUBSTANCE USE IN LABORATORY, INDUSTRIAL	PROC: 15. PC: 1, 21.	-	-

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product; J-Seal® PUI-800 (PG) in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

#### CJSA

Unit 2, 18 Farrow Circuit Seaford Rise,  
 South Australia 5169, Australia.  
 Tel +61 432 423 103  
 Email [admin@cjsa.net.au](mailto:admin@cjsa.net.au)





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## J-Seal<sup>®</sup> PUI-800 (GG)

### **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 I	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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#### **2.2. Label elements.**

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

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.

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:	TRIS(NONYLPHENYL)PHOSPHITE DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.
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#### **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.



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## J-Seal<sup>®</sup> PUI-800 (GG)

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS (continued)

#### 3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
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#### REACTIVE MIXTURE OF ETHYLBENZENE, m-XYLENE AND p-XYLENE

CAS.	0 - 5,7	Flam. Liq. 2 H225, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
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EC. 905-562-9

INDEX.

Reg. no. 01-2119555267-33

#### XYLENE (BENZENE <0.01%)

CAS.	1330-20-7	0 - 5,7	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Note C
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EC. 215-535-7

INDEX. 601-022-00-9

Reg. no. 01-2119488216-32-XXXX

#### ETHYLACETATE

CAS.	141-78-6	I - 1,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
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EC. 205-500-4

INDEX. 607-022-00-5

Reg. no. 01-2119475103-46

#### DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

CAS.	9016-87-9	0,5 - 0,6	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
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EC.

INDEX.

#### BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

CAS.	52829-07-9	0,3 - 0,35	Eye Irrit. 2 H319, Aquatic Chronic 2 H411
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EC. 258-207-9

INDEX.

Reg. no. 01-2119537297-32-XXXX

#### DIPHENYLMETHANE-4,4'-DIISOCYANATE

CAS.	101-68-8	0,25 - 0,3	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
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EC. 202-966-0

INDEX. 615-005-00-9

Reg. no. 01-2119457014-47-XXXX

#### TRIS(NONYLPHENYL)PHOSPHITE

CAS.	26523-78-4	0,2 - 0,25	Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410
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EC. 247-759-6

INDEX.

Reg. no. 01-2119520601-54-XXXX

Note: Upper limit is not included into the range.

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

The two substances with no. REACH: 01-2119555267-33 and Nr. REACH: 01-2119488216-32 constitute a mixture in variable proportions and then the maximum percentage to be considered in the finished product is equal to the maximum considered for only one of them. They having the same classification, each combination does not involve changes in the final classification of the mixture.



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### **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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN :	Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION :	Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION :	Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### **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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### **SECTION 5. FIRE-FIGHTING 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).

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### **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.

#### **6.4. Reference to other sections.**

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

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### **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.

Storage class TRGS 510 (Germany): 10

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

Information not available.

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### 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
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
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
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011 r
SWE	Sverige	Occupational Exposure Limit 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

#### DIISONONYL PHTHALATE

#### Threshold Limit Value.

Type	Country	TWA/8h mg/m <sup>3</sup> ppm	STEL/15min mg/m <sup>3</sup> ppm
WEL	GBR	5	

#### XYLENE (BENZENE <0.01%)

#### Threshold Limit Value.

Type	Country	TWA/8h mg/m <sup>3</sup> ppm	STEL/15min mg/m <sup>3</sup> ppm	
AGW	DEU	440 100	880 200	SKIN.
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	GRC	435 100	650 150	
GVI	HRV	221 50	442 100	SKIN.
TLV	ITA	221 50	442 100	SKIN.
OEL	NLD	210	442	SKIN.
NDS	POL	100		
MAK	SWE	221 50	442 100	SKIN.
OEL	EU	221 50	442 100	SKIN.
TLV-ACGIH		434 100	651 150	

#### Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,327	mg/l
Normal value in marine water	0,327	mg/l
Normal value for fresh water sediment	12,46	mg/kg
Normal value for marine water sediment	12,46	mg/kg
Normal value for water, intermittent release	0,327	mg/l
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg



# SAFETY DATA SHEET

## J-Seal<sup>®</sup> PUI-800 (GG)

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### 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	1,6 mg/kg/d				
Inhalation.			VND	14,8 mg/m <sup>3</sup>	289 mg/kg	VND	VND	77 mg/m <sup>3</sup>
Skin.			VND	108 mg/kg/d			VND	180 mg/kg/d

#### REACTIVE MIXTURE OF ETHYLBENZENE, m-XYLENE AND p-XYLENE

#### Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
TLV-ACGIH		221	50	442	100

#### Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,327	mg/l
Normal value in marine water	0,327	mg/l
Normal value for fresh water sediment	12,46	mg/kg
Normal value for marine water sediment	12,46	mg/kg
Normal value for water, intermittent release	0,327	mg/l
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	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	1,6 mg/kg/d				
Inhalation.	VND	174 mg/m <sup>3</sup>	VND	14,8 mg/m <sup>3</sup>	289 mg/kg	VND	VND	77 mg/m <sup>3</sup>
Skin.			VND	108 mg/kg/d			VND	180 mg/kg/d



# SAFETY DATA SHEET

## J-Seal® PUI-800 (GG)

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### ETHYL ACETATE

#### Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	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
TLV	GRC	1400	400		
GVI	HRV		200		400
OEL	NLD	550		1100	
NDS	POL	200		600	
MAK	SWE	500	150	1100	300
TLV-ACGIH		1441	400		

#### Predicted no-effect concentration - PNEC.

Normal value in fresh water		0,26	mg/l
Normal value in marine water	0,026	mg/l	
Normal value for fresh water sediment		1,25	mg/kg
Normal value for marine water sediment	0,125	mg/kg	
Normal value for water, intermittent release		1,65	mg/l
Normal value of STP microorganisms		650	mg/l
Normal value for the terrestrial compartment		0,24	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	4,5 mg/kg				
Inhalation.	734 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>	367 mg/m <sup>3</sup>	367 mg/m <sup>3</sup>	1468 mg/m <sup>3</sup>	1468 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>	734 mg/m <sup>3</sup>
Skin.			VND	37 mg/kg			VND	63 mg/kg

#### DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES

#### Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
OEL	ITA		0,005		
TLV-ACGIH			0,005		





# SAFETY DATA SHEET

## J-Seal® PUI-800 (GG)

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### BUMETRIZOLE

#### Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
TLV-ACGIH		10			

#### BIS (2,2,6,6-TETRAMETHYL-4-PIPERIDYL) SEBACATE

#### Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,005	mg/l
Normal value in marine water	0,0005	mg/l
Normal value for fresh water sediment	8,02	mg/kg
Normal value for marine water sediment	0,802	mg/kg
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1,6	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	1 mg/kg	VND	1 mg/kg				
Inhalation.	VND	1,4 mg/m <sup>3</sup>	VND	1,4 mg/m <sup>3</sup>	VND	5,6 mg/m <sup>3</sup>	VND	5,6 mg/m <sup>3</sup>
Skin.	VND	1 mg/kg	VND	1 mg/kg	VND	2 mg/kg	VND	2 mg/kg

#### DIPHENYLMETHANE-4,4'-DIISOCYANATE

#### Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min		
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	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	GRC	0,2		0,2		
NDS	POL	0,05		0,2		
MAK	SWE	0,03	0,002	0,05 (C)		0,005 (C)
TLV-ACGIH		0,051	0,005			



# SAFETY DATA SHEET

## J-Seal<sup>®</sup> PUI-800 (GG)

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### Predicted no-effect concentration - PNEC.

Normal value in fresh water	1,01	mg/l
Normal value in marine water	0,11	mg/l
Normal value of STP microorganisms	1,01	mg/l
Normal value for the terrestrial compartment	1,01	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 bw/d						
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/cm2	25 mg/kg bw/d			28,7 mg/cm2	50 mg/kg/d		

### 2,2 - DIMORPHOLINODIETHYL ETHER

#### Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	8,2	mg/kg
Normal value for marine water sediment	0,82	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	1,58	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	0,5 mg/kg/d				
Inhalation.			VND	1,8 mg/m3			VND	7,28 mg/m3
Skin.			VND	0,5 mg/kg/d			VND	1 mg/kg/d

#### 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.



# SAFETY DATA SHEET

## J-Seal<sup>®</sup> PUI-800 (GG)

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

#### **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 your hands with work gloves, category III (ref. standard EN 374). For the final choice of material you need to assess the type of use. In case of contact for the short term or as protection against splashes, use gloves made of nitrile (0.3mm thickness, permeation time >480 min.). In the event of continued exposure use butyl rubber gloves (0.4mm thickness, permeation time > 480 min.). Contaminated gloves should be removed.

#### **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**

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (ref. standard EN 14387).

#### **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	Typical
Odour threshold	Not available
pH.	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not applicable
Evaporation rate	Not available
Flammability (solid, gas)	Not flammable
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	1,33 Kg/l
Solubility	Insoluble in water



# SAFETY DATA SHEET

## J-Seal<sup>®</sup> PUI-800 (GG)

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (continued)**

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

Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	70000 - 150000 cps
Explosive properties	Not available
Oxidising properties	Not available

#### 9.2. Other information.

VOC (Directive 2010/75/EC)	6,80 % - 90,44 g/litre
VOC (volatile carbon)	Not available

### **SECTION 10. STABILITY AND REACTIVITY**

#### 10.1. Reactivity.

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

#### 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.

#### 10.4. Conditions to avoid.

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

#### 10.5. Incompatible materials.

Information not available.

#### 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.

### **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.



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### **SECTION II. TOXICOLOGICAL INFORMATION (continued)**

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.

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.

#### **TRIS(NONYLPHENYL)PHOSPHITE**

LD50 (Oral). > 15000 mg/kg Rattus sp.  
LD50 (Dermal). > 2000 mg/kg Oryctolagus sp.

#### **DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.**

LD50 (Oral). > 10000 mg/kg Rattus sp.  
LD50 (Dermal). > 9400 mg/kg Oryctolagus sp.  
LC50 (Inhalation). 0,31 mg/l/4h Rattus sp.

#### **DIPHENYLMETHANE-4,4'-DIISOCYANATE**

LD50 (Oral). > 2000 mg/kg Rattus sp.  
LD50 (Dermal). > 9400 mg/kg Oryctolagus sp.  
LC50 (Inhalation). 2,24 mg/l Rattus sp.

#### **BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE**

LD50 (Oral). > 2000 mg/kg Rattus sp.  
LD50 (Dermal). > 2000 mg/kg Rattus sp.  
LC50 (Inhalation). 5 mg/l Rattus sp.

#### **REACTIVE MIXTURE OF ETHYLBENZENE, m-XYLENE AND p-XYLENE**

LD50 (Oral). 5627 mg/kg Mus sp.  
LD50 (Dermal). > 5000 ml/kg Oryctolagus sp.  
LC50 (Inhalation). 6700 ppm/4h Rattus sp.

#### **ETHYL ACETATE**

LD50 (Oral). 5620 mg/kg Rattus sp.  
LD50 (Dermal). > 20000 mg/kg Oryctolagus sp.  
LC50 (Inhalation). 1600 mg/kg Oryctolagus sp.

#### **XYLENE (BENZENE <0.01%)**

LD50 (Oral). 5627 mg/kg Mus sp.  
LD50 (Dermal). > 5000 mg/kg Oryctolagus sp.  
LC50 (Inhalation). 6700 ppm/4h Rattus sp.



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### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1. Toxicity.

##### TRIS(NONYLPHENYL)PHOSPHITE

LC50 - for Fish. 7,1 mg/l/96h Danio rerio

##### DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

LC50 - for Fish. > 1000 mg/l/96h Danio rerio  
 EC50 - for Algae / Aquatic Plants. > 1640 mg/l/72h Scenedesmus subspicatus  
 Chronic NOEC for Crustacea. > 10 mg/l Daphnia magna

##### DIPHENYLMETHANE-4,4'-DIISOCYANATE

LC50 - for Fish. > 1000 mg/l/96h Danio rerio  
 Chronic NOEC for Algae / Aquatic Plants. 1640 mg/l Desmodemus subspicatus

##### BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

LC50 - for Fish. 4,4 mg/l/96h Brachydanio rerio  
 EC50 - for Algae / Aquatic Plants. 1,9 mg/l/72h Scenedesmus subspicatus

##### REACTIVE MIXTURE OF ETHYLBENZENE, m-XYLENE AND p-XYLENE

LC50 - for Fish. 2,6 mg/l/96h Salmo gairdneri  
 EC10 for Algae / Aquatic Plants. 1,9 mg/l/72h Selenastrum capricornutum

##### ETHYL ACETATE

LC50 - for Fish. > 212 mg/l/96h  
 EC50 - for Crustacea. 260 mg/l/48h Daphnia pulex

##### XYLENE (BENZENE <0.01%)

LC50 - for Fish. 2,6 mg/l/96h Oncorhynchus mykiss  
 EC50 - for Algae / Aquatic Plants. 4,36 mg/l/72h Pseudokirchneriella subcapitata  
 Chronic NOEC for Fish. > 1,3 mg/l Oncorhynchus mykiss  
 Chronic NOEC for Crustacea. 1,57 mg/l Daphnia magna

#### 12.2. Persistence and degradability.

##### TRIS(NONYLPHENYL)PHOSPHITE

NOT rapidly biodegradable.

##### DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

NOT rapidly biodegradable.

##### BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

NOT rapidly biodegradable.

##### ETHYL ACETATE

Solubility in water. > 10000 mg/l  
 Rapidly biodegradable.

##### XYLENE (BENZENE <0.01%)

Rapidly biodegradable.

#### 12.3. Bioaccumulative potential.

##### ETHYL ACETATE

Partition coefficient: n-octanol/water. 0,68  
 BCF. 30



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### **SECTION 12. ECOLOGICAL INFORMATION (continued)**

#### **12.4. Mobility in soil.**

Information not available.

#### **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.

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### **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.

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### **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.**

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.

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### **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. 52 DIISONONYL PHTHALATE

Point. 56 DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

Point. 56 DIPHENYLMETHANE-4,4'-DIISOCYANATE

Reg. no.: 01-2119457014-47-XXXX

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.

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.

#### **German regulation on the classification of substances hazardous to water (VwVwS 2005).**

WGK 2: Hazard to waters

#### **15.2. Chemical safety assessment.**

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

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### **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
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
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





# SAFETY DATA SHEET

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### SECTION 16. OTHER INFORMATION (continued)

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

Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
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.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

Use descriptor system:

ERC	2	Formulation of preparations
ERC	5	Industrial use resulting in inclusion into or onto a matrix
ERC	8b	Wide dispersive indoor use of reactive substances in open systems
PC	1	Adhesives, sealants
PC	2I	Laboratory chemicals
PROC	10	Roller application or brushing
PROC	15	Use as laboratory reagent
PROC	3	Use in closed batch process (synthesis or formulation)
PROC	4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC	5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC	8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC	8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC	9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU	10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU	17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU	19	Building and construction work



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### **SECTION 16. OTHER INFORMATION (continued)**

#### 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 labeling 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
- 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



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### **SECTION 16. OTHER INFORMATION (continued)**

- 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.*

*The following sections were modified:*

*01 / 03 / 04 / 08 / 09 / 11 / 12 / 15 / 16*

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The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product; J-Seal<sup>®</sup> PUI-800 (PG) in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

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