# **BONDIC 5998443**

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/11/2018 Revision date: 6/11/2018 Version: 1.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture Product name : BONDIC 5998443 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. **Relevant identified uses** Main use category : General purpose use Use of the substance/mixture : Adhesives. Sealants Uses advised against 1.2.2. No additional information available Details of the supplier of the safety data sheet 1.3. Supplier Laser Bonding Tech Inc 235 Industrial Pkwy S. #18 Aurora, ON L4G3V5, Canada T 855-668-2458 support@bondicna.com **Emergency telephone number** 1.4. : For emergencies involving a spill, leak, fire, exposure or accident, contact CHEMTREC (0800) Emergency number 424-9300. For emergency calls originating outside North America (202) 483-7616 **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Skin Sens. 1 H317 Eye Irrit. 2 H319 STOT RE 1 H372 Aquatic Chronic 2 H411 Full text of hazard classes and H-statements : see section 16 Adverse physicochemical, human health and environmental effects No additional information available 2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 GHS08 GHS09 Signal word (CLP) : Danger Hazardous ingredients : 2H-Azepin-2-one, 1-ethenylhexahydro-; 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl

BONDIC

Hazard statements (CLP)

Precautionary statements (CLP)

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling.

ester, exo-; 1-Propanone, 2-hydroxy-2-methyl-1-phenyl-H302+H312 - Harmful if swallowed or in contact with skin

H411 - Toxic to aquatic life with long lasting effects.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

H372 - Causes damage to organs through prolonged or repeated exposure.

- P312 Call a POISON CENTRE or doctor if you feel unwell.
- P391 Collect spillage.

Unknown acute toxicity (CLP) - SDS : 2.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

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13.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 55.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Unknown hazards to the aquatic environment

: Contains 45.9 % of components with unknown hazards to the aquatic environment

(CLP)

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

#### 3.1. **Substances**

### Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2H-Azepin-2-one, 1-ethenylhexahydro-	(CAS-No.) 2235-00-9 (EC-No.) 218-787-6	≥ 25 - < 42	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT RE 1, H372
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	(CAS-No.) 5888-33-5 (EC-No.) 227-561-6	≥ 2.5 - < 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	(CAS-No.) 75980-60-8 (EC-No.) 278-355-8 (EC Index-No.) 015-203-00-X	≥ 1 - < 2.5	Repr. 2, H361f
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	(CAS-No.) 7473-98-5 (EC-No.) 231-272-0	≥1-<1.4	Acute Tox. 4 (Oral), H302 Aquatic Chronic 3, H412

#### Full text of H-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.	
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.	
4.2. Most important symptoms and effe	cts, both acute and delayed	
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.	
Symptoms/effects after skin contact	: Harmful in contact with skin. May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	<ul> <li>Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.</li> </ul>	
Symptoms/effects after ingestion	: Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
4.3. Indication of any immediate medical attention and special treatment needed		
Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).		

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitabl	e extinguishing media	: Dry powder. Foam. Carbon dioxide.
Unsuita	able extinguishing media	: Full water jet.
5.2.	Special hazards arising from the su	ubstance or mixture
Fire hazard		: Products of combustion may include, and are not limited to: oxides of carbon. Toxic gases may be formed.
5.3.	Advice for firefighters	
Firefigh	ting instructions	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Protection during firefighting

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental relea			
6.1. Personal precautions, pro	Personal precautions, protective equipment and emergency procedures		
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.		
6.1.1. For non-emergency perso	nnel		
No additional information available			
6.1.2. For emergency responder	'S		
No additional information available			
6.2. Environmental precaution	S		
Avoid release to the environment. Pre-	event entry to sewers and public waters. Notify authorities if product enters sewers or public waters.		
6.3. Methods and material for	containment and cleaning up		
For containment	: Collect spillage. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).		
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.		
6.4. Reference to other section	ns		
For further information refer to section 8: "Exposure controls/personal protection".			
SECTION 7: Handling and st	torage		
7.1. Precautions for safe hand	lling		
Precautions for safe handling	Do not breathe dust, fume, gas, mist, spray, vapours. Do not get in eyes, on skin, or on clothing. Avoid formation of aerosol. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.		
Hygiene measures	: Wash hands, forearms and face thoroughly after handling. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.		
7.2. Conditions for safe storage	ge, including any incompatibilities		
Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Store away from foodstuffs.		

Store in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

#### Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent).

#### Eye protection:

Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemica 9.1. Information on basic physical and				
Physical state				
Colour	: Liquid			
	: Colourless			
Odour	: Characteristic			
Odour threshold	: No data available			
pH	: No data available			
Relative evaporation rate (butylacetate=1)	: No data available			
Melting point	: No data available			
Freezing point	: No data available			
Boiling point	: No data available			
Flash point	: > 100 ℃			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: No data available			
Vapour pressure	: No data available			
Relative vapour density at 20 °C	: No data available			
Relative density	: No data available			
Density	: ≈ 1.1 g/cm³			
Solubility	: No data available			
Partition coefficient n-octanol/water	: No data available			
Viscosity, kinematic	: No data available			
Viscosity, dynamic	: No data available			
Explosive properties	: No data available			
Oxidising properties	: No data available			
Explosive limits	: No data available			
9.2. Other information				
No additional information available				
SECTION 10: Stability and reactivity				
10.1. Reactivity				
No dangerous reactions known under normal conditions of use.				

No dangerous reactions known under normal conditions of use.

10.2. **Chemical stability** 

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. **Conditions to avoid**

Keep away from heat and direct sunlight. Incompatible materials.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Toxic gases may be formed.

	ECTION 11: Toxicological information		
	11.1. Information on toxicological effects		
	Acute toxicity (oral)	: Harmful if swallowed.	
Acute toxicity (dermal)		: Harmful in contact with skin.	
	Acute toxicity (inhalation)	: Not classified.	
	ATE CLP (oral)	1178.878 mg/kg bodyweight	
	ATE CLP (dermal)	1968.963 mg/kg bodyweight	
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# **BCNDIC**

## Safety Data Sheet

Proper Shipping Name (ADR)

6/11/2018

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2 LD50 oral rat	4890 mg/kg
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	- (7473-98-5)
LD50 oral rat	1694 mg/kg
Jnknown acute toxicity (CLP) - SDS	<ul> <li>2.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)</li> <li>13.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)</li> <li>55.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours)</li> </ul>
Skin corrosion/irritation	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified.
dditional information	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Not classified.
dditional information	: Based on available data, the classification criteria are not met.
GTOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
spiration hazard	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.
ECTION 12: Ecological information	
2.1. Toxicity	
cology - general	: Toxic to aquatic life with long lasting effects.
Inknown hazards to the aquatic environment CLP)	: Contains 45.9 % of components with unknown hazards to the aquatic environment
Acute aquatic toxicity	: Not classified.
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.
2.2. Persistence and degradability	
5998443	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
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Bioaccumulative potential	Not established.
2.4. Mobility in soil	
lo additional information available	
2.5. Results of PBT and vPvB assessme	nt
lo additional information available	
2.6. Other adverse effects	
Additional information	: No other effects known
ECTION 12: Dispagel consideration	20
ECTION 13: Disposal consideration 3.1. Waste treatment methods	
	· Dispass of contents/container to bazardays or appaid wasts collection point in secondarias
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	
n accordance with ADR	
4.1. UN number	
JN-No. (ADR)	: 3082
14.2. UN proper shipping name	

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

EN (English)

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14.2 Transport bazard alace/as			
14.3. Transport hazard class(es ADR			
Transport hazard class(es) (ADR) Danger labels (ADR)	9		
14.4. Packing group			
Packing group (ADR)	: III		
14.5. Environmental hazards	+ Vez		
Dangerous for the environment Other information	: Yes : No supplementary information available.		
14.6. Special precautions for us	er		
Special transport precautions	: Do not handle until all safety precautions have been read and understood.		
- Overland transport			
Orange plates			
	<u>90</u> 3082		
EAC code	: •3Z		
14.7. Transport in bulk accordin	ng to Annex II of Marpol and the IBC Code		
Not applicable			
<b>ECTION 15: Regulatory infor</b>	rmation		
	mental regulations/legislation specific for the substance or mixture		
15.1.1. EU-Regulations			
Contains no REACH substances with Annex XVII restrictions Contains no REACH candidate substance. Contains no REACH Annex XIV substances			
<b>15.1.2.</b> National regulations No additional information available			
15.2. Chemical safety assessme			
No chemical safety assessment has b			
SECTION 16: Other informat Indication of changes: None.	ion		
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.		
Other information	: None.		
Prepared by	: Nexreg Compliance Inc.		
	www.Nexreg.com		
Full text of H- and EUH-statements:			
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Aquatic Chronic 3 Eye Irrit. 2	Hazardous to the aquatic environment — Chronic Hazard, Category 3 Serious eye damage/eye irritation, Category 2		
	Reproductive toxicity, Category 2		
Bepr. 2			
Repr. 2 Skin Irrit. 2	Skin corrosion/irritation, Category 2		

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Skin Sens. 1	Skin sensitisatio	n, Category 1		
Skin Sens. 1B	Skin sensitisatio	n, category 1B		
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1			
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation			
H302	Harmful if swallowed.			
H312	Harmful in contact with skin.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H319	Causes serious eye irritation.			
H335	May cause respiratory irritation.			
H361f	Suspected of damaging fertility.			
H372	Causes damage to organs through prolonged or repeated exposure.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aqu	atic life with long lasting effects.		
H411 Toxic to aquatic I		life with long lasting effects.		
H412 Harmful to aquati		tic life with long lasting effects.		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Acute Tox. 4 (Oral)	H302	Calculation method		
Acute Tox. 4 (Dermal)	H312	Calculation method		
Eye Irrit. 2	H319	Concentration limits		
Skin Sens. 1	H317	Concentration limits		
STOT RE 1	H372	Concentration limits		
Aquatic Chronic 2 H411		Calculation method		

#### SDS EU (REACH Annex II)\_NEXREG\_NEW

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