

# Safety data sheet

## N-Bond-UV

Version 1.0

Effective date: 15-02-2022

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product identifier.

**Trade name:** N-Bond-UV.

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

**Product use:** Primer for UV printing.

**Users advised against:** -

#### 1.3 Details of the Supplier of the safety data sheet:

**Company:** Nanovations Pty Ltd - Industrial coatings  
Unit 16, Number 8 Tilley Lane  
Frenchs Forest NSW 2086  
Australia  
Tel.: +61 2 9975 5602  
www.nanovations.com.au

**Contact:** info@nanovations.com.au

#### 1.4 Emergency telephone number:

Use your national or local emergency number.  
United Kingdom: Contact The National Poisons Information Service (dial 111, 24 h service).

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture according to CLP No. 1272/2008/GB CLP.

Flam. Liq. 2; H225.

#### 2.2 Label elements according to CLP No. 1272/2008/GB CLP:

##### Hazard pictograms:



##### Signal word:

Danger

##### Hazard statements:

H225 Highly flammable liquid and vapour.

##### Precautionary statements:

General:

P102 Keep out of reach of children.

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### Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/eye protection.

### Response:

-

### Storage:

P403 + 235 Store in a well ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/container according to national/local waste disposal regulations.

### Additional information:

-

### 2.3 Other hazards.

The product contains no PBT or vPvB substances.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

This product is a mixture.

### 3.2 Mixture:

CAS/EC-no.	REACH-no.	Name	Content %	Classification CLP
64-17-5 / 200-578-6	-	Ethanol	50-90	Flam. Liq. 2; H225.
67-63-0 / 200-661-7	-	Isopropanol	1-5	Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3; H336.

See full text of H-phrases in section 16. Occupational limits are listed in section 8, if these are available.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

#### General information:

Consult physician if symptoms occur.

#### Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Skin contact:

Wash with soap and water. Remove contaminated clothing.

#### Eye contact:

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.

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**Ingestion:** Rinse mouth with water and spit out. Do not induce vomiting.  
Call a POISON CENTRE/doctor if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed:**  
Eye contact may cause temporary irritation.  
Inhalation may cause coughing and discomfort.

**4.3 Indication of any immediate medical attention and special treatment needed:**  
Treat symptomatically.

## SECTION 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing media:** Alcohol-resistant foam, carbonic acid (CO<sub>2</sub>), powder, water mist.

**Unsuitable extinguishing media:**  
Water jets should not be used, since they can spread the fire.

**5.2 Special hazards arising from the substance or mixture:**  
Highly flammable liquid. Vapors may form explosive mixture with air.  
Hazardous combustion products in case of fire: Carbon dioxide (CO<sub>2</sub>).  
Carbon monoxide (CO) - do not inhale.

**5.3 Advice for firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:**  
See section 8 for recommendations on the use of personal protective equipment. Ensure sufficient ventilation. Keep away heat, sparks, and open flame. No smoking. Do not breathe vapours. Avoid contact with skin and eyes.

**6.2 Environmental precautions:**  
Avoid discharge to lakes, streams, sewers, etc.

**6.3 Methods and material for containment and cleaning up:**  
Small spills: wipe up with absorbent material (e.g. cloth, fleece).  
Large spills: Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in suitable closed container for disposal, according to local regulations. The product is flammable, use non-sparking equipment. Then rinse the spillage site with plenty of water. Dispose of in accordance with section 13.

**6.4 Reference to other sections:**  
See section 8 for personal protection.  
See section 13 for disposal.

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### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

See section 8 for recommendations on the use of personal protective equipment. Avoid contact with skin and eyes. Ensure sufficient ventilation. Keep away from heat, sparks, and open flame. No smoking. Do not breathe vapors. See section 8 for personal protection. Take action to prevent static discharges. Use explosion-proof electrical, lighting, ventilating equipment.

Do not eat, drink or smoke when using this product.

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

Keep packages tightly closed. Store in a cool, dry, well ventilated location. Store away from food, drink and animal feeding stuffs. Keep away from heat, sparks, and open flame. No smoking. Keep out of reach for children.

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

This product should only be used for applications described in section 1.2.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters - Occupational exposure limits EH-40 (Great Britain):

CAS-no:	Name:	Limits 8 h:	Limits 15 min.:	Ref./comments:
64-17-5	Ethanol	1000 ppm 1920 mg/m	- -	EH40/-
67-63-0	Isopropanol	400 ppm 999 mg/m	500 ppm 1250 mg/m <sup>3</sup>	EH40/-

#### DNEL/PNEC:

-

#### 8.2 Exposure controls.

##### Appropriate technical measures:

Airborne concentrations must be kept as low as possible, and below above exposure limits. Use for example an exhaust system if the normal air flow in the work room is not sufficient.

##### General information / Hygiene measures:

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom. Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

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### Personal protective equipment:

Only CE-marked personal protection equipment should be used.



**Respiratory protection:** In case of inadequate ventilation, use respiratory protection with filter A.

**Hand protection:** Wear gloves. EN 374.  
Option: Nitrile  $\geq 240$  min.

**Eye protection:** Wear tightly safety goggles, if risk of contact. EN 166.

**Body protection:** Normal work clothing.

### Measures to avoid environmental exposure:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state:	Liquid
Colour:	Colorless
Odour:	Characteristic
Melting point/freezing point:	Not relevant/no data
Boiling point:	78°C
Flammability:	Not relevant/no data
Lower and upper explosion limit:	Not relevant/no data
Flash point:	15 - 23°C
Auto-ignition temperature:	Not relevant/no data
Decomposition temperature:	Not relevant/no data
pH:	~2
Kinematic viscosity:	Not relevant/no data
Solubility:	Soluble in water
Partition coefficient n-octanol/water:	Not relevant/no data
Vapour pressure:	5.9 kPa - 20°C
Density and/or relative density:	Not relevant/no data
Relative vapour density:	Not relevant/no data
Particle characteristics:	Not relevant/no data

### 9.2 Other information:

No data.

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### SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity:** No dangerous reaction known under conditions of normal use.
- 10.2 Chemical stability:** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions:**  
No dangerous known.
- 10.4 Conditions to avoid:** Keep away from heat, high temperature, direct sunlight and sources of ignition. Temperature >35°C.
- 10.5 Incompatible materials:** Strong oxidizing agents.
- 10.6 Hazardous decomposition products:**  
No hazardous decomposition products known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

- Acute toxicity:** Not classified.
- Ethanol:  
Oral – LD50 – Rat: 10470 mg/kg  
Dermal – LD50 – Rabbit: >15800 mg/kg  
Inhalation – LC50 – Rat: 117-125 mg/l/4 h.
- Isopropanol:  
Oral – LD50 – Rat: 5840 mg/kg  
Inhalation – LC50 – Rat: >10.000 ppm/6 h.
- Skin corrosion/irritation:** Not classified.
- Serious eye damage/irritation:** Not classified.
- Respiratory or skin sensitization:** Not classified.
- Germ cell mutagenicity:** Not classified.
- Carcinogenicity:** Not classified.
- Reproductive toxicity:** Not classified.
- Specific target organ toxicity - single exposure:** Not classified.
- Specific target organ toxicity – repeated exposure:** Not classified.
- Aspiration hazard:** Not classified.

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### 11.2 Information on other hazards:

#### Endocrine disrupting properties:

The product/substance has no endocrine disrupting properties.

#### Additional information:

This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

Not classified.

Ethanol:

Fish – LC50 – 96 h.: 10.000 mg/L

Daphnia – EC50 – 24 h.: 11.500 mg/L

Isopropanol:

Fish – LC50 – 96 h.: 9640 mg/L

Daphnia – EC50 – 24 h.: >10.000 mg/L

### 12.2 Persistence and degradability:

Biodegradable.

### 12.3 Bioaccumulative potential:

No potential.

### 12.4 Mobility in soil:

No data.

### 12.5 Result of PBT and vPvB assessment:

The product does not meet the criteria for PBT or vPvB.

### 12.6 Endocrine disrupting properties:

The product/substance has no endocrine disrupting properties.

### 12.7 Other adverse effects:

None known.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Dispose in a safe manner in accordance with local/national regulations.

The coding of a waste stream is based on the application of the product by the consumer.

Option:

#### EWC-code:

07 07 04\* other organic solvents, washing liquids and mother liquors.

15 02 02\* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.

#### Contaminated packing:

Properly cleaned container is disposed of according to packaging material. Otherwise:

15 01 10\* packaging containing residues of or contaminated by dangerous substances.

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### SECTION 14. TRANSPORT INFORMATION

This product is classified as dangerous to ADR transport.

	ADR/RID	IMDG/IMO
14.1 UN number	1170	1170
14.2 UN proper shipping name	ETHANOL SOLUTION	ETHANOL SOLUTION
14.3 Transport hazard class(es)	3	3
14.4 Packing group	II	II
14.5 Environmental hazards – MP EmS:	No F-E, S-D	No F-E, S-D
Other information	LQ: 1 L. TUNNEL: D/E	LQ: 1 L. TUNNEL: D/E

#### 14.6 Special precautions for user:

Not relevant.

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

Not relevant.

### SECTION 15. REGULATORY INFORMATION

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

**Sources:** Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, The Personal Protective Equipment at Work Regulations 2022. Hazardous Waste (England and Wales) Regulations 2005 (as amended). EC regulation 1907/2006 (REACH). Directive 2000/532/EC. Seveso directive: 96/82/EC. EU No. 2020/878. CLP No. 1272/2008. GB CLP.

#### Additional information:

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

#### 15.2 Chemical safety assessment:

A Chemical safety assessment has not been carried out.



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### SECTION 16. OTHER INFORMATION

**Full text of H-phrases as mentioned in section 3:**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Additional information:**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**Validated by:**

SRS

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