



## SAFETY DATA SHEET 2597

### InnoviBond Membrane Adhesive

#### SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

PRODUCT NAME	InnoviBond Membrane Adhesive
TRADE NAME	Single-Ply Bonding Adhesive
PRODUCT NUMBER	6100001
CHEMICAL FAMILY	No information available
PRODUCT USE	Adhesive
MANUFACTURER/SUPPLIER	IKO Industries Ltd. 160 IKO Way Hagerstown, MD 21740 United States
WEBSITE	<a href="http://www.iko.com">www.iko.com</a>
EMERGENCY NUMBER	CANUTEC: 1-613-996-6666 (24 hours information only)

#### SECTION 2 – HAZARD IDENTIFICATION

##### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

SIGNAL WORD Danger

SYMBOL(S)



CLASSIFICATION

Flammable Liquids – Category 2  
Germ Cell Mutagenicity – Category 1B  
Carcinogenicity – Category 1A  
Reproductive Toxicity – Category 2  
Specific Target Organ Toxicity, Repeated Exposure – Category 2  
Aspiration Hazard – Category 1  
Acute Toxicity – Category 4  
Skin Irritation – Category 2  
Eye Irritation – Category 2A  
Specific Target Organ Toxicity, Single Exposure – Category 3

HAZARD STATEMENTS

Highly flammable liquid and vapor.  
May cause genetic defects.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.  
May be fatal if swallowed and enters airways.  
Harmful if swallowed.  
Causes skin irritation.



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#### PRECAUTIONARY STATEMENTS

Causes serious eye irritation.  
May cause drowsiness or dizziness.

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. -  
No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Immediately call a poison center/doctor.  
Specific treatment (see on this label).  
Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF exposed or concerned: Get medical advice/attention.  
Call a poison center/doctor if you feel unwell.  
Get medical advice/attention if you feel unwell.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation occurs: Get medical advice/attention.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool. Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

#### NFPA

Health: 2  
Flammability: 3  
Reactivity: 0

#### HMIS

Health: \*2  
Flammability: 3  
Physical Hazards: 0



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#### SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS

CHEMICAL NAME	% (w/w)	CAS NUMBER
Naphtha (petroleum), solvent-refined light	50-100%	64741-84-0
toluene	25-50%	108-88-3
acetone	5-20%	67-65-1
Formaldehyde. polymer with 4-(1, 1-dimethylethyl)phenol	2.5-10%	25085-50-1
Magnesium oxide	≤2.5%	1309-48-4
zinc oxide	≤1%	1314-13-2

#### SECTION 4 – FIRST AID

INHALATION	In case of unconsciousness place patient stably in side position for transportation. Call a doctor immediately. Overexposure, remove to fresh air and seek medical attention.
INGESTION	Seek medical treatment.
SKIN CONTACT	Immediately wash with water and soap and rinse thoroughly.
EYE CONTACT	Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor
ACUTE AND CHRONIC SYMPTOMS	No further relevant information available.
MEDICAL ATTENTION	No further relevant information available.

#### SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	CO <sub>2</sub> , Sand, Extinguishing powder or water spray. Fight larger fires with water spray. Unsuitable extinguishing agents: Water stream and water with full jet
ADVICE FOR FIRE FIGHTING	Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
FLAMMABILITY	Not applicable.
PROPERTIES	Form: Liquid Color: Yellow Odor: Characteristic Odor threshold: Not determined



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FLASH POINT -18 °C (-0.4 °F)

FLAMMABLE LIMITS IN AIR Not applicable.

AUTO IGNITION TEMPERATURE Product is not selfigniting.

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS, PROTECTIVE MEASURES AND EMERGENCY PROCEDURES

Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away

Protective Action Criteria for Chemicals ·

PAC-1:

108-88-3	<i>toluene</i>	67 ppm
67-74-1	<i>acetone</i>	200 ppm
1309-48-4	<i>magnesium oxide</i>	30 mg/m <sup>3</sup>
13-14-13-2	<i>zinc oxide</i>	10 mg/m <sup>3</sup>

PAC-2:

108-88-3	<i>toluene</i>	560 ppm
67-74-1	<i>acetone</i>	3200* ppm
1309-48-4	<i>magnesium oxide</i>	120 mg/m <sup>3</sup>
13-14-13-2	<i>zinc oxide</i>	15 mg/m <sup>3</sup>

PAC-3:

108-88-3	<i>toluene</i>	3700 ppm
67-74-1	<i>acetone</i>	5700* ppm
1309-48-4	<i>magnesium oxide</i>	730 mg/m <sup>3</sup>
13-14-13-2	<i>zinc oxide</i>	2500 mg/m <sup>3</sup>

##### ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

##### SPILL MANAGEMENT

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents

##### REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information



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#### SECTION 7 - HANDLING AND STORAGE

##### HANDLING PROCEDURE

Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling. Open containers in a well ventilated area and avoid breathing headspace vapors. Open and handle receptacle with care. Prevent formation of aerosols.

##### STORAGE PRECAUTIONS

Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat. (0-50C) (Metal Can, no water)

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

#### SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace: The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

CHEMICAL NAME	EXPOSURE LIMITS			
	PEL	REL	TLV	Biological Limit
108-88-3 <i>toluene</i>	Long-term value: 200 ppm  Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm  Long-term value: 375 mg/m <sup>3</sup> , 100 ppm	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene  0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene  0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
67-64-1 <i>acetone</i>	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm  Long-term value: 594 mg/m <sup>3</sup> , 250 ppm BEI	150 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)



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CHEMICAL NAME	EXPOSURE LIMITS			
	PEL	REL	TLV	Biological Limit
1309-48-4 <i>magnesium oxide</i>	Long-term value: 15* mg/m <sup>3</sup> fume; *total particulate	N/A	Long-term value: 10* mg/m <sup>3</sup> *as inhalable fraction	Not applicable
1314-13-2 <i>zinc oxide</i>	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction and fume	Short-term value: 10** mg/m <sup>3</sup>  Long-term value: 5 mg/m <sup>3</sup> Ceiling limit value: 15* mg/m <sup>3</sup> *dust only **fume	Short-term value: 10* mg/m <sup>3</sup>  Long-term value: 2* mg/m <sup>3</sup> *as respirable fraction	Not applicable
ADDITIONAL OCCUPATIONAL EXPOSURE LIMIT VALUES FOR POSSIBLE HAZARDS DURING PROCESSING				
110-54-3 <i>n-hexane</i>	Long-term value: 1800 mg/m <sup>3</sup> , 500 ppm	Long-term value: 180 mg/m <sup>3</sup> , 50 ppm	Long-term value: 176 mg/m <sup>3</sup> , 50 ppm Skin; BEI	
110-82-7 <i>cyclohexane</i>	Long-term value: 1050 mg/m <sup>3</sup> , 300 ppm	Long-term value: 1050 mg/m <sup>3</sup> , 300 ppm	Long-term value: 344 mg/m <sup>3</sup> , 100 ppm	
142-82-5 <i>heptane</i>	Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm	Long-term value: 350 mg/m <sup>3</sup> , 85 ppm  Ceiling limit value: 1800* mg/m <sup>3</sup> , 440* ppm *15-min	Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm  Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm	

#### ENGINEERING MEASURES

No further information available.

#### PERSONAL PROTECTIVE EQUIPMENT

See listings below

#### RESPIRATORY PROTECTION

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

#### BODY PROTECTION

Protective work clothing



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EYE PROTECTION	Safety glasses with side shields.
HYGIENE MEASURES	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
OTHER CONTROLS	<p>Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</p> <p>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation</p> <p>Material of gloves: Nitrile rubber, NBR</p> <p>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and must be observed.</p>

#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Form: Liquid Color: Yellow
ODOR	Characteristic
ODOR THRESHOLD	Not determined
PH	Not determined.
MELTING POINT/FREEZING POINT	Melting point: Undetermined.
INITIAL BOILING POINT AND BOILING RANGE	Boiling point: 98 °C (208.4 °F)
FLASH POINT	-18 °C (-0.4 °F)
EVAPORATION RATE	Not determined.
FLAMMABILITY	Not applicable. Product is not explosive. However, formation of explosive air/vapor mixtures are possible.



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UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	Lower: 1.2 Vol % Upper: 13.0 Vol %
VAPOR PRESSURE 20 °C (68 °F)	233.0 hPa (174.8 mm Hg)
VAPOR DENSITY	Not determined.
RELATIVE DENSITY	Not determined.
MOLECULAR WEIGHT	No information available
SOLUBILITY(IES)	Not miscible or difficult to mix.
PARTITION COEFFICIENT: N- OCTANOL/WATER	Not determined.
IGNITION TEMPERATURE	240°C (464°F)
AUTO-IGNITION TEMPERATURE	Product is not selfigniting.
SPECIFIC GRAVITY 20 °C (68 °F)	0.839 g/cm <sup>3</sup>
VISCOSITY	Dynamic: Not determined. Kinematic: Not determined.
SOLVENT CONTENT	<b>Organic solvents:</b> 78.0 %
SOLIDS CONTENT	22.0%
OTHER INFORMATION	VOC = 5.17 LBS/GAL WEIGHT PER GALLON = 6.98 LBS
NOTICE THIS PRODUCT DOES NOT COMPLY WITH THE REQUIREMENT OF RULE 1168 OF CALIFORNIA'S SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT - 637 G/L SCAQMD RULE 1168 METHOD	

#### SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY	No further relevant information available.
CHEMICAL STABILITY	
POSSIBILITY OF HAZARDOUS REACTIONS	No further information is available.
CONDITIONS TO AVOID	Heat, flames, sparks.
INCOMPATIBLE MATERIALS	Strong oxidizers, acids, and bases.





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HAZARDOUS DECOMPOSITION PRODUCTS      Oxides of carbon, nitrogen and hydrocarbons, hydrogen chloride (thermal degradation products).

#### SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC TOXICITY      LD/LC50 values that are relevant for classification:

108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE      No further information available

PRIMARY ROUTE OF EXPOSURE      Skin and Eye

EYES      Causes serious eye irritation. Vapors may be irritating to the eyes.

SKIN      Irritant to skin and mucous membranes.

INHALATION      No further information available

INGESTION      No further information available

STOT (SPECIFIC TARGET ORGAN TOXICITY)- SINGLE EXPOSURE      May cause drowsiness or dizziness.

STOT (SPECIFIC TARGET ORGAN TOXICITY) – REPEATED EXPOSURE      May cause damage to organs through prolonged or repeated exposure.

CARCINOGENICITY      IARC (International Agency for Research on Cancer)

108-88-3	<i>Toluene</i>	<i>Group 3</i>
9010-98-4	<i>Polychloroprene Polymer</i>	<i>Group 3</i>
102-71-6	<i>1,3-butadiene-styrene block polymer</i>	<i>Group 3</i>

NTP (National Toxicology Program):  
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration):  
None of the ingredients is listed.

REPRODUCTIVE TOXICITY      May cause reproductive harm.



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DEVELOPMENT OF OFFSPRING	Chemicals known to cause developmental toxicity: 108-88-3 <i>toluene</i>
SEXUAL FUNCTION AND FERTILITY	Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
	Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

#### SECTION 12 – ECOLOGICAL INFORMATION

AQUATICTOXICITY	No further relevant information available.
REMARK	Very toxic for fish and other aquatic organisms.
PERSISTENCE & DEGRADABILITY	No further relevant information available.
BIODEGRADATION MOBILITY	No further relevant information available.
BIOACCUMULATION POTENTIAL	No further relevant information available.
MOBILITY IN SOILS	No further relevant information available.
GENERAL NOTES	At present there are no ecotoxicological assessments.
	Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

#### SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS	Waste treatment methods: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations. Disposal must be made according to official regulations.
	Uncleaned packagings: Disposal must be made according to official regulations



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#### SECTION 14 – TRANSPORT INFORMATION

UN-NUMBER:	UN1133
DOT	
ADN, IMDG, IATA	
UN PROPER SHIPPING NAME:	ADHESIVES
DOT	
ADN, IMDG, IATA	
TRANSPORT HAZARD CLASS(ES):	Class 3 Flammable liquids · Label 3
DOT	
ADN, IMDG, IATA CLASS	
PACKING GROUP:	PGII
DOT	
IMDG, IATA	
ENVIRONMENTAL HAZARD	Product contains environmentally hazardous substances: Naphtha (petroleum), solvent-refined light
	Marine pollutant: yes
	Special marking with the symbol (fish and tree).
SPECIAL PRECAUTIONS FOR USERS	Warning: Flammable liquids ·
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	Not applicable.
TRANSPORT/ADDITIONAL INFORMATION	Not applicable.
UN “MODEL REGULATION”	UN1133, Adhesives, mixture, 3, II

#### SECTION 15 - REGULATIONS

Section 355 (extremely hazardous substances):  
None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):  
108-88-3 *toluene*  
1314-13-2 *zinc oxide*

TSCA (Toxic Substances Control Act):  
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.



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Hazardous Air Pollutants:

108-88-3 *toluene*

Proposition 65:

Chemicals known to cause cancer:

None of the ingredients is listed.

(DSL) Canada Domestic Substance List:

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

New Jersey Right-to-Know List:

108-88-3 *toluene*

67-64-1 *acetone*

1309-48-4 *magnesium oxide*

1314-13-2 *zinc oxide*

New Jersey Special Hazardous Substance List:

108-88-3 *toluene TE, F3*

67-64-1 *acetone F3*

Pennsylvania Right-to-Know List:

108-88-3 *toluene*

67-64-1 *acetone*

1309-48-4 *magnesium oxide*

1314-13-2 *zinc oxide*

Pennsylvania Special Hazardous Substance List:

108-88-3 *toluene E*

67-64-1 *acetone E*

1314-13-2 *zinc oxide E*

Carcinogenicity categories · EPA (Environmental Protection Agency):

108-88-3 *toluene I*

67-64-1 *acetone II*

1314-13-2 *zinc oxide D, I, II*

TLV (Threshold Limit Value established by ACGIH):

108-88-3 *toluene A4*

67-64-1 *acetone A4*

1314-13-2 *zinc oxide A4*

MAK (German Maximum Workplace Concentration):

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients is listed.

National regulations:

Information about limitation of use: Use by properly trained workers recommended

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



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#### SECTION 16 – OTHER INFORMATION

REVISION DATE OF SDS	June 28 2024
REPLACES THE MSDS/SDS FROM	January 27, 2021
PREPARED BY	Research Department
GENERAL INFORMATION	1-888-766-2468
WEBSITE	<a href="http://www.iko.com">www.iko.com</a>
OTHER INFO/DISCLAMERS	Read this Safety Data Sheet before handling or disposing of this product.

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.