



## SAFETY DATA SHEET 2591

### InnoviBond Membrane Adhesive LVOC

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

PRODUCT NAME	InnoviBond Membrane Adhesive LVOC
TRADE NAME	Membrane Adhesive
PRODUCT NUMBER	6100002
CHEMICAL FAMILY	No information available.
PRODUCT USE	Industrial use only: 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  
Reproductive Toxicity – Category 2  
Specific Target Organ Toxicity, Repeated Exposure - Category 2  
Eye Irritation – Category 2A  
Specific Target Organ Toxicity, Single Exposure; Narcotic Effects – Category 3

HAZARD STATEMENTS  
Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Suspected of damaging fertility or the unborn child.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS  
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.



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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 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 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. If eye irritation persists: Get medical advice/attention.  
 In case of fire: Use for extinction: CO2, 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  
 Instability: 0

HMIS Health: 2  
 Flammability: 3  
 Physical Hazards: 0

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

CHEMICAL NAME	% (w/w)	CAS NUMBER
tert-butyl acetate	25-50	540-88-5
methyl acetate	25-50	79-20-9
toluene	2.5-10	108-88-3

### SECTION 4 – FIRST AID

INHALATION Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

INGESTION Rinse mouth with water. Do not induce vomiting; immediately call for medical help

SKIN CONTACT Immediately wash with water and soap and rinse thoroughly.



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EYE CONTACT	Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.
ACUTE AND CHRONIC SYMPTOMS	No information available.
MEDICAL ATTENTION	No information available.

#### SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	CO <sub>2</sub> , extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.
FIRE FIGHTING	No further information available.
FLAMMABILITY	Highly flammable liquid and vapor. Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
PROPERTIES:	
FLASH POINT	-10 °C (14 °F)
FLAMMABLE LIMITS IN AIR	Lower: 3.1 Vol % Upper: 16 Vol %
AUTO IGNITION TEMPERATURE	Product is not selfigniting.
SPECIAL PPE FOR FIRE-FIGHTERS	Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Protective clothing and respiratory protective device.

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE MEASURES AND EMERGENCY PROCEDURES	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
ENVIRONMENTAL PRECAUTIONS	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.



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### SECTION 7 - HANDLING AND STORAGE

**HANDLING PROCEDURE**      Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep container closed when not in use.

**STORAGE PRECAUTIONS**      Store in a cool location away from direct heat (0-50 °C). Store away from oxidizing agents. Keep receptacle tightly sealed.

### SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

CHEMICAL NAME	OCCUPATIONAL EXPOSURE LIMITS		
	OSHA (PEL)	ACGIH (TLV)	NIOSHA (REL)
Tert-butyl acetate	Long-term value: 950 mg/m <sup>3</sup> , 200 ppm	Short-term value: 712 mg/m <sup>3</sup> , 150 ppm  Long-term value: 238 mg/m <sup>3</sup> , 50 ppm	Long-term value: 950 mg/m <sup>3</sup> , 200 ppm
Methyl acetate	Long-term value: 610 mg/m <sup>3</sup> , 200 ppm	Short-term value: 757 mg/m <sup>3</sup> , 250 ppm  Long-term value: 606 mg/m <sup>3</sup> , 200 ppm	Short-term value: 760 mg/m <sup>3</sup> , 250 ppm  Long-term value: 610 mg/m <sup>3</sup> , 200 ppm
Toluene	Long-term value: 200 ppm  Ceiling limit value: 300 ppm (500* ppm) *10-min peak per 8-hr shift	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm  Long-term value: 375 mg/m <sup>3</sup> , 100 ppm

INGREDIENTS WITH BIOLOGICAL LIMIT VALUES: BEI

Toluene  
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



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0.3 mg/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: o-Cresol with hydrolysis (background)

ENGINEERING MEASURES	No information available.
PERSONAL PROTECTIVE EQUIPMENT:	Gloves, tightly sealed goggles, protective work clothing.
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.
SKIN AND BODY PROTECTION	Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. 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. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Protective work clothing.
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. Avoid contact with the eyes and skin.
OTHER CONTROLS	No information available.

#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Form: Liquid Color: Undetermined
ODOR	Characteristic.
ODOR THRESHOLD	No information available.
PH	No information available.
MELTING POINT/FREEZING POINT	No information available.
INITIAL BOILING POINT AND BOILING RANGE	57 °C (134.6 °F)
FLASH POINT	-10 °C (14 °F)



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EVAPORATION RATE	No information available.
FLAMMABILITY	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	3.1 Vol % Upper: 16 Vol %
VAPOR PRESSURE	220 hPa (165 mm Hg) at 20 °C (68 °F)
VAPOR DENSITY	No information available.
RELATIVE DENSITY	No information available.
MOLECULAR WEIGHT	No information available.
SOLUBILITY(IES)	Not miscible or difficult to mix with water
PARTITION COEFFICIENT: N- OCTANOL/WATER	No information available.
AUTO-IGNITION TEMPERATURE	Product is not self-igniting.
SPECIFIC GRAVITY	0.941 g/cm <sup>3</sup> (7.85265 lbs/gal) at 20 °C (68 °F)
VISCOSITY	No information available.

#### SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:	No information available.
CHEMICAL STABILITY	No decomposition if used according to specifications.
POSSIBILITY OF HAZARDOUS REACTIONS	No dangerous reactions known.
CONDITIONS TO AVOID	Heat, flames, sparks.
INCOMPATIBLE MATERIALS	Reacts with oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide and carbon dioxide Hydrogen chloride (HCl)

#### SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC TOXICITY	LD/LC50 values that are relevant for classification: Toluene: Oral LD50 5,000 mg/kg (rat) Dermal LD50 12,124 mg/kg (rabbit) Inhalative LC50/4 h 5,320 mg/l (mouse)
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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE No information available.

PRIMARY ROUTE OF EXPOSURE No information available.

#### HEALTH EFFECTS:

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

SKIN May irritate the skin.

INHALATION No information available.

INGESTION No 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):  
9010-98-4, Polychloroprene Polymer, group 3  
108-88-3, Toluene, group 3  
9003-55-8 1,3-butadiene-styrene block polymer, group 3

#### REPRODUCTIVE TOXICITY:

DEVELOPMENT OF OFFSPRING Suspected of damaging fertility or the unborn child.

SEXUAL FUNCTION AND FERTILITY Suspected of damaging fertility

GERM CELL MUTAGENICITY No information available.

### SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY No information available (at present there are no ecotoxicological assessments)

PERSISTENCE & DEGRADABILITY No information available.

BIODEGRADATION MOBILITY No information available (at present there are no ecotoxicological assessments)

BIOACCUMULATION POTENTIAL No information available (at present there are no ecotoxicological assessments)



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#### SECTION 13 – DISPOSAL CONSIDERATIONS

**DISPOSAL  
RECOMMENDATIONS**

Waste treatment methods: Must be specially treated adhering to official regulations.

Uncleaned packagings: Disposal must be made according to official regulations.

#### SECTION 14 – TRANSPORT INFORMATION

UN-NUMBER:  
DOT  
ADN, IMDG, IATA

UN1133

UN PROPER SHIPPING  
NAME:  
DOT  
ADN, IMDG, IATA

Adhesives

TRANSPORT HAZARD  
CLASS(ES):  
DOT  
ADN, IMDG, IATA CLASS

Class: 3 Flammable liquids

PACKING GROUP:  
DOT  
IMDG, IATA

PGII

ENVIRONMENTAL HAZARD

Not applicable.

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

Danger code (Kemler): 33  
EMS Number: F-E,S-D

UN "MODEL REGULATION"

UN 1133 ADHESIVES (VAPOUR PRESSURE AT 50°C NOT MORE THAN 110 KPA), 3, II

#### SECTION 15 - REGULATIONS

WATER HAZARD CLASS

Water hazard class 2: hazardous for water.

SAFETY, HEALTH AND  
ENVIRONMENTAL

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





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REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE · SARA	Section 313 (Specific toxic chemical listings): 108-88-3 toluene TSCA (Toxic Substances Control Act): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.
(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	tert-butyl acetate, methyl acetate, toluene
NEW JERSEY SPECIAL HAZARDOUS SUBSTANCE LIST	tert-butyl acetate; F3 methyl acetate; F3 toluene; TE, F3
PENNSYLVANIA RIGHT-TO-KNOW LIST	tert-butyl acetate, methyl acetate, toluene
PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCE LIST	tert-butyl acetate; E toluene; E

#### 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/DISCLAIMERS	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.