 BOSTIK		Page: 1
SAFETY DATA SHEET		Revision Date: 03/04/2022
		Print Date: 12/6/2023
		SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608		Version: 3.0

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Pliobond™ 5001
ADHESIVE
™ Trademark, Bostik or its subsidiaries, registered in various countries

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


Recommended use : PRESSURE SENSITIVE ADHESIVE

Details of the supplier of the safety data sheet Bostik, Inc. 11320 W Watertown Plank Road Wauwatosa, WI 53226 United States of America (USA) +1 (800) 843-0844 (Domestic Toll Free); +1 (414) 774-2250 (International) EHSproductsafety.US@bostik.com	Emergency telephone number Chemtrec 1-800-424-9300, outside US 1-703-527-3887 Regulatory information Rocky Mountain Poison center: 1-866-767-5089
---	--

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2
Skin irritation : Category 2
Eye irritation : Category 2A
Reproductive toxicity : Category 2
Specific target organ toxicity : Category 3 (Central nervous system)
- single exposure
Specific target organ toxicity : Category 1 (Nervous system)
- repeated exposure
(Inhalation)

	Page: 2
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Central nervous system, Peripheral nervous system)


GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Highly flammable liquid and vapor.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause drowsiness or dizziness.
 Suspected of damaging fertility. Suspected of damaging the unborn child.
 Causes damage to organs (Nervous system) through prolonged or repeated exposure if inhaled.
 May cause damage to organs (Central nervous system, Peripheral nervous system) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
 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.
 Keep container tightly closed.
 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 skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 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. Call a POISON CENTER/ doctor if you feel unwell.

	Page: 3
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

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.
 If skin irritation occurs: Get medical advice/ attention.
 If eye irritation persists: Get medical advice/ attention.
 Take off contaminated clothing and wash before reuse.
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.

Disposal:
 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Static Accumulating liquid

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
 Chemical nature : Static Accumulator
 Chemical nature : Defatter

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
N-HEXANE	110-54-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361f STOT SE 3; H336 STOT RE 1; H372 Asp. Tox. 1; H304	48.1544
toluene	108-88-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315	6.84



BOSTIK

SAFETY DATA SHEET

Revision Date: 03/04/2022


Print Date: 12/6/2023

SDS Number: R0171406

Version: 3.0


Pliobond™ 5001 ADHESIVE
 ™ Trademark, Bostik or its subsidiaries, registered in various countries
 571608

		Repr. 2; H361d STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304	
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	Flam. Liq. 2; H225 STOT SE 3; H336 Asp. Tox. 1; H304	5.016
METHYL-3-PENTANE	96-14-0	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336 Asp. Tox. 1; H304	5.016
METHYLCYCLOPENTANE	96-37-7	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335, H336 Asp. Tox. 1; H304	5.016
METHYL-2-PENTANE	107-83-5	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304	2.5079

 BOSTIK	Page: 5
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
Consult a physician after significant exposure.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
temporary changes in mood and behavior
confusion
irregular heartbeat
Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.
- Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.

 BOSTIK	Page: 6
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

Suspected of damaging fertility. Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure if inhaled.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Hydrocarbons
Aldehydes

Specific extinguishing methods :


Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive

 BOSTIK	Page: 7
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

concentrations. Vapours can accumulate in low areas. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.

Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

- Advice on safe handling : Open drum carefully as content may be under pressure. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national



SAFETY DATA SHEET

Revision Date: 03/04/2022

Print Date: 12/6/2023

SDS Number: R0171406

Version: 3.0

Pliobond™ 5001 ADHESIVE
 ™ Trademark, Bostik or its subsidiaries, registered in various countries
 571608

regulations.
 Container may be opened only under exhaust ventilation hood.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 No smoking.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
N-HEXANE	110-54-3	TWA	50 ppm	ACGIH
		TWA	50 ppm 180 mg/m3	NIOSH REL
		TWA	500 ppm 1,800 mg/m3	OSHA Z-1
		TWA	50 ppm 180 mg/m3	OSHA P0
		PEL	50 ppm 180 mg/m3	CAL PEL
toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
		PEL	10 ppm 37 mg/m3	CAL PEL
		C	500 ppm	CAL PEL



BOSTIK

SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
	SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	Version: 3.0


		STEL	150 ppm 560 mg/m3	CAL PEL
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
METHYL-3-PENTANE	96-14-0	TWA	500 ppm	ACGIH
		STEL	1,000 ppm	ACGIH
		TWA	500 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 3,600 mg/m3	OSHA P0
		TWA	100 ppm 350 mg/m3	NIOSH REL
		C	510 ppm 1,800 mg/m3	NIOSH REL
		STEL	1,000 ppm 3,600 mg/m3	CAL PEL
		PEL	500 ppm 1,800 mg/m3	CAL PEL
METHYL-2-PENTANE	107-83-5	TWA	500 ppm	ACGIH
		STEL	1,000 ppm	ACGIH
		TWA	500 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 3,600 mg/m3	OSHA P0
		TWA	100 ppm 350 mg/m3	NIOSH REL
		C	510 ppm 1,800 mg/m3	NIOSH REL
		STEL	1,000 ppm 3,600 mg/m3	CAL PEL
		PEL	500 ppm 1,800 mg/m3	CAL PEL

Hazardous components without workplace control parameters

Components	CAS-No.
METHYLCYCLOPENTANE	96-37-7

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
N-HEXANE	110-54-3	2,5-Hexanedione	Urine	End of shift	0.5 mg/l	ZUS_A CGIHB

		Page: 10
SAFETY DATA SHEET		Revision Date: 03/04/2022
		Print Date: 12/6/2023
		SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608		Version: 3.0

Remarks:	Without hydrolysis					
toluene	108-88-3	Toluene	In blood	Prior to last shift of workweek	0.02 mg/l	ZUS_A CGIHB
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ZUS_A CGIHB
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ZUS_A CGIHB

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Filter type : Organic vapour type


Hand protection

Material : Laminate (Barrier© or Silvershield©)
 Break through time : 480 min
 Glove thickness : > 0.5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:
 Impervious clothing
 Safety shoes
 Flame-resistant clothing

 BOSTIK	Page: 11
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Physical state : liquid

Colour : tan

Odour : slight, hydrocarbon-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : not determined

Boiling point/boiling range : 147 °F / 64 °C
(1,013.333333 hPa)

Flash point : < -18 °C
Calculated Phase Transition Liquid/Gas
Method: Seta closed cup

Evaporation rate : 1
Ethyl Ether = 1


Flammability (liquids) : Static Accumulating liquid

Flammability (liquids) : not determined

Upper explosion limit : 7 %(V)
Calculated Explosive Limit

Lower explosion limit : 1 %(V)
Calculated Explosive Limit

Vapour pressure : 184 hPa (20 °C)
Calculated Vapor Pressure

 BOSTIK	Page: 12
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

Relative vapour density : > 1(Air = 1.0)

Relative density : 0.776 (77.00 °F)

Density : 0.776 g/cm3 (77.00 °F)

Solubility(ies)

Water solubility : not determined

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Acids
Oxidizing agents
peroxides

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
Hydrocarbons
Acetone



BOSTIK

SAFETY DATA SHEET

Revision Date: 03/04/2022

Print Date: 12/6/2023

SDS Number: R0171406

Version: 3.0

Pliobond™ 5001 ADHESIVE
™ Trademark, Bostik or its subsidiaries, registered in various countries
571608

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

N-HEXANE:

Acute oral toxicity : LD50 (Rat, male and female): ca. 16 g/kg

Acute inhalation toxicity : LC50 (Rat, male): > 5000 ppm
Exposure time: 24 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

toluene:

Acute oral toxicity : LD50 (Rat, male): 5,580 mg/kg

Acute inhalation toxicity : LC50 (Rat): 28.1 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403


Acute dermal toxicity : LD50 (Rabbit): 12,267 mg/kg

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Acute oral toxicity : LD50 (Rat): > 8,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 7,630 mg/m³
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 4,000 mg/kg
Assessment: Not classified as acutely toxic by dermal

 BOSTIK	Page: 14
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

absorption under GHS.

METHYL-3-PENTANE:

Acute oral toxicity : LD50 (Rat): 16,000 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): 73680 ppm
Exposure time: 4 h
Test atmosphere: vapour
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): 3,350 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.
Remarks: Information given is based on data obtained from similar substances.

METHYLCYCLOPENTANE:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

METHYL-2-PENTANE:

Acute inhalation toxicity : LC50 (Rat): > 3125 ppm
Exposure time: 4 h
Test atmosphere: vapour
Assessment: Not classified as acutely toxic by inhalation under GHS.

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation and/or dermatitis.

Components:

N-HEXANE:


Result: Irritating to skin.

toluene:

Species: Rabbit

Method: Regulation (EC) No. 440/2008, Annex, B.4

Result: Irritating to skin.

 BOSTIK	Page: 15
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Slight, transient irritation

Result: Repeated exposure may cause skin dryness or cracking.

METHYL-3-PENTANE:

Result: Mild skin irritation

METHYLCYCLOPENTANE:

Result: Irritating to skin.

Result: Repeated exposure may cause skin dryness or cracking.

METHYL-2-PENTANE:

Result: Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

N-HEXANE:

Result: Slight, transient irritation

toluene:

Result: Slight, transient irritation

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Slight, transient irritation

METHYL-3-PENTANE:

Result: Irritating to eyes.

METHYLCYCLOPENTANE:

Result: Irritating to eyes.

METHYL-2-PENTANE:

Result: Slight, transient irritation

Method: OECD Test Guideline 405


Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

toluene:

 BOSTIK	Page: 16
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

Test Type: Maximisation Test
Species: Guinea pig
Method: Directive 67/548/EEC, Annex V, B.6.
Result: Did not cause sensitisation on laboratory animals.

METHYL-3-PENTANE:
Assessment: Did not cause sensitisation on laboratory animals.
Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity
Not classified based on available information.

Components:

toluene:

- Genotoxicity in vitro
- : Test Type: In vitro gene mutation study in bacteria
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)
Result: negative
 - : Test Type: In vitro mammalian cell gene mutation test
Test species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

- Genotoxicity in vivo
- : Test Type: chromosome aberration assay
Test species: Rat
Cell type: Bone marrow
Result: negative

METHYLCYCLOPENTANE:
Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

Carcinogenicity
Not classified based on available information.


Reproductive toxicity
Suspected of damaging fertility. Suspected of damaging the unborn child.

Components:

N-HEXANE:

- Reproductive toxicity - Assessment : Suspected of damaging fertility., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

toluene:

 BOSTIK	Page: 17
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

N-HEXANE:

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

toluene:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

METHYL-3-PENTANE:

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

METHYLCYCLOPENTANE:

Target Organs: Respiratory Tract, Central nervous system

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

METHYL-2-PENTANE:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs (Nervous system) through prolonged or repeated exposure if inhaled.

May cause damage to organs (Central nervous system, Peripheral nervous system) through prolonged or repeated exposure if inhaled.

Components:

N-HEXANE:

Exposure routes: Inhalation

Target Organs: Nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

toluene:


Exposure routes: Inhalation

Target Organs: Central nervous system, Peripheral nervous system

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

 BOSTIK	Page: 18
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

toluene:

Species: Rat, male and female

NOAEL: 625 mg/kg

Application Route: Oral

Exposure time: 13 wks

Method: Regulation (EC) No. 440/2008, Annex, B.26

Species: Rat, male and female

NOAEL: 1.131 mg/l

Application Route: inhalation (vapour)

Method: OECD Test Guideline 453

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

N-HEXANE:

May be fatal if swallowed and enters airways.

toluene:

May be fatal if swallowed and enters airways.

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

May be fatal if swallowed and enters airways.

METHYL-3-PENTANE:

May be fatal if swallowed and enters airways.

METHYLCYCLOPENTANE:

May be fatal if swallowed and enters airways.

METHYL-2-PENTANE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.


Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or

 BOSTIK	Page: 19
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

Components:

N-HEXANE:

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 9.29 mg/l
Exposure time: 72 h

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.


toluene:

Toxicity to fish : LC50 (Oncorhynchus kisutch (coho salmon)): 5.5 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 3.78 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 134 mg/l
Exposure time: 3 h
Test Type: static test

NOEC (Skeletonema costatum (marine diatom)): 10 mg/l
Exposure time: 72 h

 BOSTIK	Page: 20
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 1.39 mg/l
Exposure time: 40 d
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 0.74 mg/l
Exposure time: 7 d

METHYL-3-PENTANE:
Ecotoxicology Assessment
Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

METHYL-2-PENTANE:
Ecotoxicology Assessment
Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

N-HEXANE:
Biodegradability : Remarks: Expected to be biodegradable

toluene:
Biodegradability : Result: Readily biodegradable.

No data available

Bioaccumulative potential


Components:

N-HEXANE:
Partition coefficient: n-octanol/water : log Pow: 3.90

toluene:
Bioaccumulation : Species: Leuciscus idus (Golden orfe)
Bioconcentration factor (BCF): 90
Exposure time: 3 d

Partition coefficient: n-octanol/water : log Pow: 2.73 (20 °C)
pH: 7

METHYL-3-PENTANE:

 BOSTIK	Page: 21
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	SDS Number: R0171406 Version: 3.0

Partition coefficient: n-octanol/water : log Pow: 3.60

METHYLCYCLOPENTANE:
Partition coefficient: n-octanol/water : log Pow: 3.37

METHYL-2-PENTANE:
Bioaccumulation : Bioconcentration factor (BCF): 100 - 408

Partition coefficient: n-octanol/water : log Pow: 3.74

No data available

Mobility in soil

Components:

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

Components:

toluene:


Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

		Page: 22
SAFETY DATA SHEET		Revision Date: 03/04/2022
		Print Date: 12/6/2023
		SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608		Version: 3.0

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
-----------	----------------------	---------------	--------------------	---------------	------------------------------

U.S. DOT - ROAD

UN 1133	Adhesives	3		II	MARINE POLLUTANT:(NORMAL- HEXANE, METHYL-3- PENTANE)
---------	-----------	---	--	----	---

CFR_RAIL_C

UN 1133	Adhesives	3		II	MARINE POLLUTANT:(NORMAL- HEXANE, METHYL-3- PENTANE)
---------	-----------	---	--	----	---

U.S. DOT - INLAND WATERWAYS


UN 1133	Adhesives	3		II	MARINE POLLUTANT:(NORMAL- HEXANE, METHYL-3- PENTANE)
---------	-----------	---	--	----	---

TDG_ROAD_C

UN 1133	ADHESIVES	3		II	
---------	-----------	---	--	----	--

TDG_RAIL_C

UN 1133	ADHESIVES	3		II	
---------	-----------	---	--	----	--

		Page: 23
SAFETY DATA SHEET		Revision Date: 03/04/2022
		Print Date: 12/6/2023
		SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608		Version: 3.0

TDG_INWT_C

UN	1133	ADHESIVES	3	II	MARINE POLLUTANT:(NORMAL- HEXANE, METHYL-3- PENTANE)
----	------	-----------	---	----	---

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1133	ADHESIVES	3	II	MARINE POLLUTANT:(NORMAL- HEXANE, METHYL-3- PENTANE)
----	------	-----------	---	----	---

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1133	Adhesives	3	II
----	------	-----------	---	----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1133	Adhesives	3	II
----	------	-----------	---	----

MX_DG

UN	1133	ADHESIVES	3	II
----	------	-----------	---	----

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes
------------------	-----


Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

 BOSTIK		Page: 24
SAFETY DATA SHEET		Revision Date: 03/04/2022
		Print Date: 12/6/2023
		SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608		Version: 3.0

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
N-HEXANE	110-54-3	5000	10383

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
 Hazard not otherwise classified (physical hazards)
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Reproductive toxicity
 Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 The following components are subject to reporting levels established by SARA Title III, Section 313:


N-HEXANE	110-54-3	48.15 %
toluene	108-88-3	6.84 %

California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, benzene, which is/are known to the State of California to cause cancer, and n-hexane, toluene, benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : All substances listed as active on the TSCA inventory
- AIIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL

	Page: 25
	SAFETY DATA SHEET
	Revision Date: 03/04/2022
	Print Date: 12/6/2023
	SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	Version: 3.0

- ENCS : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory
- NZIoC : Not in compliance with the inventory

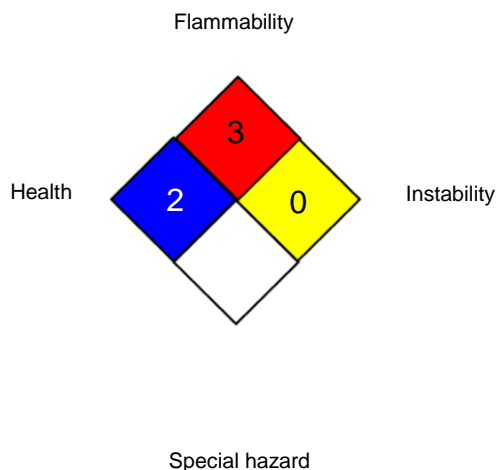
Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

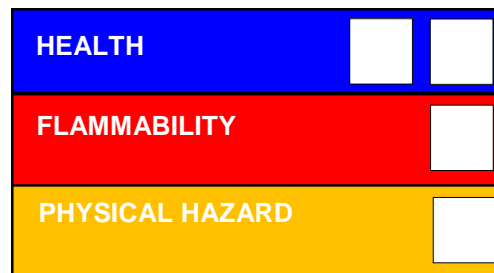
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:




HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of H-Statements

- H225 Highly flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.


 BOSTIK	Page: 26
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
	SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	Version: 3.0

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This sds has been prepared by Bostik. (<http://www.Bostik.com>)

	Page: 27
SAFETY DATA SHEET	Revision Date: 03/04/2022
	Print Date: 12/6/2023
	SDS Number: R0171406
Pliobond™ 5001 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries 571608	Version: 3.0

Sources of key data used to compile the Safety Data Sheet :

- Bostik internal data including own and sponsored test reports
- European Union Law with content from the Official Journal of the European Union.
- European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.
- The German Water Hazard Classes.
- ReachCentrum; a series of support services to help comply with REACH regulations.
- The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.
- The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.
- Cefic, the European Chemical Industry Council.
- ESIS European Chemical Substances Information System

Revision Date : 03/04/2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN