## Poly-Solv® PnB

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 9/30/2022 Revision date: 9/30/2022 Supersedes: 10/11/2020 Version: 1.1

## SECTION 1: Identification

### 1.1. Identification

Product form
Trade name
Chemical name
CAS-No.
Formula
Synonyms

## Substance

Poly-Solv® PnB
Propylene glycol monobutyl ether
5131-66-8
C7H16O2
3-Butoxypropan-2-ol / 1-Butoxypropan-2-ol / Propan-2-ol, 1-butoxy- / 2-Propanol, 1-butoxy- / Propylene glycol monobutyl ether / Propylene glycol butyl ether / Propylene glycol n-butyl ether / n-Butoxy-2-propanol / Propanol-1-butoxy, 2- / Butoxy-2-propanol, 1- / BUTOXYPROPANOL / 1,2-Propylene glycol 1-monobutyl ether / 2-Propanol-1-butoxy / PROPYLENE GLYCOL BUTYL ETHER / propylene glycol 1-butyl ether

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture

### 1.3. Supplier

Monument Chemical
2450 Olin Road
Brandenburg, KY, 40108
USA
T (270)422-6860
sds@monumentchemical.com - www.monumentchemical.com

### 1.4. Emergency telephone number

Emergency number
: 24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970); 24 HR Emergency Assistance: 1-270-422-6860

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

GHS US classification
Flammable liquids Category 4

H227
H315
H319

Combustible liquid
Causes skin irritation
Causes serious eye irritation

Serious eye damage/eye irritation Category 2
Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

## GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US)
Hazard statements (GHS US)

Precautionary statements (GHS US)

: Warning
H227-Combustible liquid H315 - Causes skin irritation H319-Causes serious eye irritation
: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321-Specific treatment (see a doctor on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder, Water spray to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available
2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

| 3.1. Substances |  |
| :--- | :--- |
| Chemical name | $:$ Propylene glycol monobutyl ether |
| CAS-No. | $: 5131-66-8$ |


| Name | Product identifier | $\%$ |
| :--- | :--- | :--- |
| 1-Butoxy-2-propanol <br> (Main constituent) | CAS-No.: 5131-66-8 | $\geq 95$ |
| Propanol, 2-butoxy- <br> (Impurity) | CAS-No.: 15821-83-7 | $\leq 5$ |

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after 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.
First-aid measures after ingestion
: Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

| Symptoms/effects after skin contact | $:$ Irritation. |
| :--- | :--- |
| Symptoms/effects after eye contact | $:$ Eye irritation. |

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### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.
SECTION 5: Fire-fighting measures

| 5.1. Suitable (and unsuitable) extinguishing media |
| :--- |
| Suitable extinguishing media $\quad:$ Water spray. Dry powder. Foam. Carbon dioxide. |
| 5.2. Specific hazards arising from the chemical |
| Fire hazard $:$ Combustible liquid. <br> Hazardous decomposition products in case of fire $:$ Toxic fumes may be released. |
| 5.3. Special protective equipment and precautions for fire-fighters |
| Protection during firefighting |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

### 6.1.2. For emergency responders

Protective equipment
Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

## Propylene glycol monobutyl ether (5131-66-8)

No additional information available
1-Butoxy-2-propanol (5131-66-8)

No additional information available
Propanol, 2-butoxy- (15821-83-7)
No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls
Environmental exposure controls

Ensure good ventilation of the work station.
Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

| Hand protection: |
| :--- |
| Protective gloves |
| Eye protection: |
| Safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment |

Personal protective equipment symbol(s):


SECTION 9: Physical and chemical properties

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

Physical state
Appearance
Color
Odor
Odor threshold
pH
Melting point
Freezing point
Boiling point
Flash point
Relative evaporation rate (butyl acetate=1)
Flammability (solid, gas)
: Liquid
Clear, colorless liquid.
Colorless
: ether-like
No data available
No data available
Not applicable
$-85^{\circ} \mathrm{C}$
$165-175^{\circ} \mathrm{C}$
$68.9^{\circ} \mathrm{C}$ (ASTM D93)
No data available
Not applicable.

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Vapor pressure : $\left.1.1 \mathrm{~mm} \mathrm{Hg} \mathrm{(25}{ }^{\circ} \mathrm{C}\right)$

Relative vapor density at $20^{\circ} \mathrm{C} \quad: 4.6$
Relative density : No data available
Molecular mass : $132.2 \mathrm{~g} / \mathrm{mol}$
Solubility
Water: $52 \mathrm{~g} / \mathrm{l}$
Partition coefficient n-octanol/water (Log Pow)
Auto-ignition temperature
$1.2\left(20^{\circ} \mathrm{C}\right)$

Decomposition temperature
$260{ }^{\circ} \mathrm{C}$ (Literature)

Viscosity, kinematic
No data available $3.85 \mathrm{~mm}^{2} / \mathrm{s}\left(20^{\circ} \mathrm{C}\right)$

Viscosity, dynamic
$2.8 \mathrm{mPa} . \mathrm{s}\left(25^{\circ} \mathrm{C}\right)$
Explosion limits
$1.1-9 \mathrm{vol} \%$
Explosive properties : No data available
Oxidizing properties
: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| Acute toxicity (oral) |
| :--- |
| Acute toxicity (dermal) $:$ Not classified <br> Acute toxicity (inhalation) $:$ Not classified <br> Propylene glycol monobutyl ether (5131-66-8)  <br> LD50 oral rat $3300 \mathrm{mg} / \mathrm{kg}$ <br> LD50 dermal rat classified  <br> LD50 dermal rabbit $>2000 \mathrm{mg} / \mathrm{kg}$ <br> LC50 Inhalation - Rat $>2000 \mathrm{mg} / \mathrm{kg}$ <br> ATE US (oral) $>3.4 \mathrm{mg} / \mathrm{l} / \mathrm{h}$  |

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| 1-Butoxy-2-propanol (5131-66-8) |  |
| :---: | :---: |
| LD50 oral rat | $3300 \mathrm{mg} / \mathrm{kg}$ |
| LD50 dermal rat | $>2000 \mathrm{mg} / \mathrm{kg}$ body weight (OECD 402: Acute Dermal Toxicity, 24 h , Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LD50 dermal rabbit | > $2000 \mathrm{mg} / \mathrm{kg}$ |
| LC50 Inhalation - Rat | > 3.4 mg/l |
| ATE US (oral) | $3300 \mathrm{mg} / \mathrm{kg}$ body weight |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitization | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| 1-Butoxy-2-propanol (5131-66-8) |  |
| LOAEL (oral,rat,90 days) | $1000 \mathrm{mg} / \mathrm{kg}$ body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B. 26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral,rat,90 days) | $350 \mathrm{mg} / \mathrm{kg}$ body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B. 26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (dermal,rat/rabbit,90 days) | $880 \mathrm{mg} / \mathrm{kg}$ body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| Aspiration hazard | Not classified |
| Viscosity, kinematic | $3.85 \mathrm{~mm}^{2} / \mathrm{s}\left(20^{\circ} \mathrm{C}\right)$ |
| 1-Butoxy-2-propanol (5131-66-8) |  |
| Viscosity, kinematic | $3.85 \mathrm{~mm}^{2} / \mathrm{s}\left(20^{\circ} \mathrm{C}\right.$, DIN 51562: Capillary viscometer) |
| Symptoms/effects after skin contact | Irritation. |
| Symptoms/effects after eye contact | Eye irritation. |

SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
1-Butoxy-2-propanol (5131-66-8)

| LC50 - Fish [1] | $560-1000 \mathrm{mg} / \mathrm{I}(\mathrm{OECD} 203:$ Fish, Acute Toxicity Test, 96 h, Poecilia reticulata, Static system, <br> Fresh water, Experimental value, GLP) |
| :--- | :--- |
| EC50 - Crustacea [1] | $>1000 \mathrm{mg} / \mathrm{I}(\mathrm{OECD}$ 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static <br> system, Fresh water, Experimental value, GLP) |
| EC50 96h - Algae [1] | $>1000 \mathrm{mg} / \mathrm{l}$ (Other, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental <br> value, GLP) |

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12.2. Persistence and degradability

| 1-Butoxy-2-propanol (5131-66-8) | Readily biodegradable in water. |
| :--- | :--- |
| Persistence and degradability |  |
| 12.3. Bioaccumulative potential |  |
| Propylene glycol monobutyl ether (5131-66-8)  <br> Partition coefficient n-octanol/water (Log Pow) $1.2\left(20^{\circ} \mathrm{C}\right)$ <br> 1-Butoxy-2-propanol (5131-66-8) 1.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 <br> $\left.{ }^{\circ} \mathrm{C}\right)$ <br> Partition coefficient n-octanol/water (Log Pow) Low potential for bioaccumulation (Log Kow < 4). <br> Bioaccumulative potential  |  | 

### 12.4. Mobility in soil

1-Butoxy-2-propanol (5131-66-8)

| Surface tension | $57600 \mathrm{mN} / \mathrm{m}\left(20^{\circ} \mathrm{C}, 100 \mathrm{vol} \%\right)$ |
| :--- | :--- |
| Ecology - soil | No straightforward conclusion can be drawn based upon the available numerical values. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods
: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

### 14.1. UN number

| DOT NA No | $:$ NA1993 |
| :--- | :--- |
| UN-No. (IMDG) | $:$ Not applicable |
| UN-No. (IATA) | $:$ Not applicable |

### 14.2. UN proper shipping name

Proper Shipping Name (DOT)
Proper Shipping Name (IMDG)
Proper Shipping Name (IATA)
Transport document description (DOT)

Combustible liquid, n.o.s. ((PROPYLENE GLYCOL MONOBUTYL ETHER))
Not applicable
Not applicable
NA1993 Combustible liquid, n.o.s. (PROPYLENE GLYCOL MONOBUTYL ETHER), 3, III

### 14.3. Transport hazard class(es)

## DOT

Transport hazard class(es) (DOT) : 3

IMDG
Transport hazard class(es) (IMDG) : Not applicable

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IATA

| Transport hazard class(es) (IATA) | : Not applicable |
| :--- | :--- |
| 14.4. Packing group | : III |
| Packing group (DOT) | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) |  |
| 14.5. Environmental hazards | : Transportation Notes: Material is not regulated by the U.S. DOT for ground transportation within | the U.S. if shipped in non-bulk packaging (<119 gallons).

### 14.6. Special precautions for user

DOT
UN-No.(DOT)
DOT Special Provisions (49 CFR 172.102)

## NA1993

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at $50 \mathrm{C}(1.1 \mathrm{bar}$ at 122 F$)$, or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T1-1.5 178.274(d)(2) Normal............ 178.275(d)(2)
T4-2.65 178.274(d)(2) Normal............. 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling $=97 / 1+a(t r-t f)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Quantity Limitations Passenger aircraft/rail (49 : 60 L
CFR 173.27)
DOT Quantity Limitations Cargo aircraft only (49 : 220 L
CFR 175.75)
DOT Vessel Stowage Location

A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

IMDG
No data available
IATA
No data available

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

## Not applicable

SECTION 15: Regulatory information

### 15.1. US Federal regulations

| All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act |
| :--- |
| (TSCA) inventory, except for: |
| Propanol, 2-butoxy- |

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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

## CANADA

## Propylene glycol monobutyl ether (5131-66-8)

Listed on the Canadian DSL (Domestic Substances List)

1-Butoxy-2-propanol (5131-66-8)
Listed on the Canadian DSL (Domestic Substances List)

## EU-Regulations

## Propylene glycol monobutyl ether (5131-66-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## 1-Butoxy-2-propanol (5131-66-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## National regulations

## Propylene glycol monobutyl ether (5131-66-8)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZloC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)

## 1-Butoxy-2-propanol (5131-66-8)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
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Propanol, 2-butoxy- (15821-83-7)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZloC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)
```


### 15.3. US State regulations

## $\triangle$ warning:

This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## SECTION 16: Other information

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Revision date
: 09/30/2022

| Full text of H-phrases |  |
| :--- | :--- |
| H227 | Combustible liquid |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |

NFPA health hazard

NFPA fire hazard

NFPA reactivity
: 1 - Materials that, under emergency conditions, can cause significant irritation.
: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
: 0 - Material that in themselves are normally stable, even under fire conditions.


## Hazard Rating

Health
Flammability

Physical
: 1 Slight Hazard - Irritation or minor reversible injury possible
: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II \& IIIA)
: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

## Safety Data Sheet (SDS), USA

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