

SAFETY DATA SHEET

Section 1: Identification

Product identifier

Product name: Gnomepen

Other means of identification

Product Catalogue Number: GPF-VPSA-

Recommended use and restrictions on use

Recommended Use: Hydrophobic barrier for immunohistochemistry assays

Uses advised against: No information available

Details of the supplier of the safety data sheet

Manufacturer

Invignome
P.O box 1757
Rehovot
Israel

Emergency phone number

For emergency call local emergency phone numbers.

Email: sales@invignome.com

Section 2: Hazard(s) Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-----------------------------------|--------------------------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity | (single exposure) Category 3 |
| Specific target organ toxicity | (repeated exposure) Category 2 |
| Aspiration toxicity | Category 1 |
| Flammable liquids | Category 2 |

Label elements**Emergency Overview****Signal word****Danger**

- H315 Causes skin irritation
H319 Causes serious eye irritation
H360 Suspected of damaging fertility or the unborn child
H336 May cause drowsiness or dizziness
H371 May cause damage to organs through prolonged or repeated exposure
H304 May be fatal if swallowed and enters airways
H225 Highly flammable liquid and vapor

**Appearance:** Colorful**Physical state** Liquid**Odor** Solvent**Precautionary Statements - Prevention**

- Obtain special instructions before use
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required (including hand, eye and respiratory protection).
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe fumes/vapors/spray
Use only in a fume hood or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces - No smoking!
Keep container tightly closed
Take precautionary measures against static discharge

Precautionary Statements - Response

- IF exposed or concerned:** Get medical advice/attention
IF IN EYES: 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
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
In case of fire: Use CO₂, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Section 3: Composition/ Information on Ingredients

Substances

| Chemical Name | CAS No | Weight-% |
|-----------------------|---------------|-----------------|
| Xylene | 1330-20-7 | 30-40 |
| Toluene | 00108-88-3 | 30-40 |
| Polychloroprene | 09010-98-4 | 15-25 |
| Petroleum distillates | 64742-49-0 | 15-30 |
| Phenol Resin | 25085-50-1 | 10-15 |
| Petrolatum | 8009-03-8 | 1-10 |
| Dyes | NA | 1-5 |

Any concentration shown as a range is due to batch variation

Section 4: First-Aid Measures

Description of first aid measures

| | |
|------------------------------------|--|
| General advice | Get medical advice/attention if you feel unwell. |
| Eye contact | IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Skin contact | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water and soap. Take off contaminated clothing and wash before reuse. If skin irritation continues: Get medical advice/attention. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician. |
| Ingestion | IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. |

Most important symptoms and effects, both acute and delayed

Symptoms: See section 2 for more information

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Suitable extinguishing media

Carbon dioxide (CO₂), Dry chemical, Foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

Highly flammable. Risk of ignition. Vapors may travel to source of ignition and flash back.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required. Wash thoroughly after handling.

Environmental precautions Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations

Section 7: Handling and Storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials

Strong oxidizing agents, Strong Bases, Strong Acids

Section 8: Exposure Controls/Personal Protection

| <u>Chemical Name</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>NIOSH IDLH</u> |
|-----------------------------|---|--|---|
| Xylene 95-47-6 | 100 ppm (434 mg/m3) TWA, 150 ppm (651 mg/m3) STEL | 100 ppm (435 mg/m3) TWA, 150 ppm (655 mg/m3) STEL | 1,000 ppm |
| TOLUENE 108-88-3 | TWA: 20 ppm | TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m3 (vacated) STEL: 150 ppm (vacated) STEL: 560 | IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m3 STEL: 150 ppm STEL: 560 mg/m3 |

| | | | |
|-----------------------|-----------------------------------|---|----|
| | | mg/m3 Ceiling: 300 ppm | |
| Polychloroprene | NA | NA | NA |
| Petroleum distillates | 5 mg/m3 TWA Inhalable fraction | 500 ppm (2,000 mg/m3) PEL 5 mg/m3 PEL Mist. | NA |
| Phenol Resin | NA | NA | N |
| Petrolatum | NA | NA | NA |
| Dyes | NA | NA | NA |

General protective and hygienic measures:

Use gloves.

Wash hands in water and soap.

Breathing equipment:

Application in a chemical fume hood is recommended.

Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

Protection of hands:

Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

Eye protection:

Wear safety glasses with side shields (or goggles).

Section 9: Physical and Chemical Properties

| <u>Information</u> | <u>Values/description</u> | <u>Comments</u> |
|---------------------------------------|---------------------------|-------------------------------------|
| Physical state | Liquid | At room temperature |
| Appearance | yellowish | Coloring agents (dyes) may be added |
| Odor | Solvent/aromatic | Toluene odor is noticeable |
| Odor threshold | No information available | |
| pH | No information available | |
| Melting point / freezing point | No information available | |
| Boiling point / boiling range | 56C | |
| Flash point | -20C | |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | Flammable | |
| Flammability Limit in Air | No information available | |
| Upper flammability limit: | No information available | |
| Lower flammability limit: | No information available | |
| Vapor pressure | (20C) 247 hPa | |
| Vapor density | (15C) 0.866 G/cc | |
| Relative density | (15C) 0.866 G/cc | |
| Solubility in water | (20C) <0.10 Wt% | |
| Partition coefficient | No information available | |

| | | |
|----------------------------------|--------------------------|--|
| Autoignition temperature | No self ignition | |
| Decomposition temperature | No information available | |
| Viscosity | (25C) 1500-2000 cps | |
| Density | (15C) 0.866 G/cc | |
| Bulk density | No information available | |
| Vapor density | No information available | |

Section 10: Stability and Reactivity

Reactivity:

Stable under normal conditions.

Chemical stability:

Stable under recommended storage conditions.

Conditions to avoid:

Heat, flame, sparks.

Incompatible materials:

Strong oxidizing agents, strong acids and strong bases.

Hazardous decomposition products:

Carbon oxides (CO, CO₂ and others)

Section 11: Toxicological Information

Acute toxicity:

No information available

Potential routes of exposure/potential health effects

Skin:

May cause skin irritation and/or dermatitis

Eye:

Will cause eye discomfort, redness and tearing of the eye.

Inhalation:

Vapor concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system affects.

Ingestion:

Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Carcinogenic effects:

Toluene (Cas: 108-88-3) is registered as a IARC group 3 carcinogen.

Mutagenic effects:

No information available

Reproductive toxicity:

No information available

Sensitization:

No information available

Target organs:

Liver, central nervous system, Eyes, kidney, Liver, Peripheral Nervous System (PNS), Respiratory system, Skin.

Chronic toxicity:

May cause adverse liver effects.

Section 12: Ecological Information (non-mandatory)**Ecotoxicity:**

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Mobility:

No information available.

Biodegradation:

No information available.

Bioaccumulation:

No information available.

Section 13: Disposal Considerations (non-mandatory)**Waste disposal**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging

Do not reuse container

US EPA Waste Number

D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| | | |
|---------|-----------|--------------------|
| ACETONE | 67-64-1 | Ignitable |
| TOLUENE | 108-88-3 | Toxic Ignitable |
| Xylene | 1330-20-7 | |
| | | |
| | | |

Section 14: Transport Information (non-mandatory)

| | |
|------------------------------|----------------------------------|
| DOT | |
| UN/ID No | 1133 |
| Proper shipping name: | Adhesives, Limited Quantity (LQ) |
| Hazard Class | 3 |
| Packing Group | II |
| Emergency Response Guide No. | 128 |
| IATA | |
| UN/ID No | ID 8000 |
| Proper shipping name: | Consumer commodity |
| Hazard Class | 9 |
| ERG Code | 9L |
| IMDG | |
| UN/ID No | 1133 |

| | |
|---|----------------------------------|
| Proper shipping name: | Adhesives, Limited Quantity (LQ) |
| Hazard Class | 3 |
| Packing Group | II |
| EmS-No | F-E, S-D |
| Section 15: Regulatory Information (non-mandatory) | |
| US Federal Regulations | |
| SARA Section 355 (extremely hazardous substances): | |
| SARA Section 313 (specific toxic chemical listings): | |
| Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372 | |
| Toluene | 108-88-3 |
| Xylene | 1330-20-7 |
| SARA 311/312 Hazard Categories | |
| Acute health hazard: | Yes |
| Chronic Health Hazard: | Yes |
| Fire hazard: | Yes |
| Sudden release of pressure hazard: | No |
| Reactive Hazard: | No |
| Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): | |
| This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42): | |
| Toluene | 108-88-3 |
| Xylene | 1330-20-7 |
| CWA (Clean Water Act) | |
| This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) | |
| Toluene | 108-88-3 |
| WHMIS Hazard Class | |
| Toluene | Class B2; D2A, D2B |
| Xylene | Class B2; D2A, D2B |
| Section 16: Other Information | |
| SDS date of preparation/update: March 2020 | |

This information related 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. Such information is to the best of Invignome's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.