



Invignome

Date Prepared : 14.4.17
GHS MSDS: Gnomepen
Revision No : 1

1. PRODUCT AND COMPANY INFORMATION

PRODUCT DESCRIPTION: Gnomepen hydrophobic pen

MANUFACTURER

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2. HAZARD IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
Eye Irritation, Category 2
Reproductive Toxicity, Category 2
Target Organ Toxicity (Single exposure) - Narcotic Effects, Category 3
Aspiration Hazard, Category 1
Target Organ Toxicity (Repeated exposure), Category 2

Physical:

Flammable Liquids, Category 2

GHS LABEL ELEMENTS



Flame

Health
hazardExclamation
mark**SIGNAL WORD: DANGER****HAZARD STATEMENTS**

H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS**Prevention:**

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No Smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash skin and hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective equipment as required.

P362+P364: Take off contaminated clothing and wash it before reuse.

Response:

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/ attention.

P313: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

P331: Do NOT induce vomiting.

P332+P313: If skin irritation occurs: Get medical advice/attention.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of in a manner consistent with federal, state, and local regulations.

3. COMPOSITION / INGREDIENTS INFORMATION

3. COMPOSITION

Material	%	C.A.S No.
Xylene	30-40	1330-20-7
Toluene	30-40	00108-88-3
Polychloroprene	15-25	09010-98-4
Petroleum distillates	15-30	64742-49-0
Phenol Resin	10-15	25085-50-1
Hydrophobic compounds	1-10	
Dyes	1-5	

4. FIRST AID

EYES	Flush eye with water for 15 minutes. Get medical attention.
SKIN	Wash with soap and water. Get medical attention if irritation develops or persists.
INGESTION	If swallowed, do not induce vomiting. Keep individual calm. Get medical attention and show container label.
INHALATION	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES	Causes serious eye irritation.
SKIN	Contact causes skin irritation.
SKIN	Immediately wash skin with soap and plenty of water.
ABSORPTION	Remove contaminated clothing. Get medical attention if symptoms reoccur. Wash clothing before reuse.

INGESTION	Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.
INHALATION	Signs and symptoms of excessive exposure may be central nervous system effects such as sleepiness and unconsciousness
ACUTE EFFECTS	Inhalation may cause temporary dizziness, headache, and possible nausea. Symptoms normally disappear when exposure ceases. Eye/Skin contact may cause discomfort by defatting action of solvents.
CHRONIC EFFECTS:	Prolonged or repeated inhalation may cause lung damage and/or central nervous system disturbances.

5. FIRE FIGHTING

EXTINGUISHING MEDIA:	Water, Dry chemical, carbon dioxide or Halon extinguisher.
HAZARDOUS COMBUSTION PRODUCTS:	Combustible by-products of carbon monoxide and dioxide.
EXPLOSION HAZARDS:	Vapors can travel to a source of ignition and flash back.
FIRE FIGHTING PROCEDURES:	Use water spray to keep fire-exposed containers cool and to knock down vapors, which may result from product decomposition.
FIRE FIGHTING EQUIPMENT:	As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.
FIRE EXPLOSION:	Containers may rupture violently under fire temperatures. Cool containers with water if exposed to fire
SENSITIVE TO STATIC DISCHARGE:	No data available
SENSITIVITY TO IMPACT:	No data available
HAZARDOUS DECOMPOSITION PRODUCTS:	Combustible by-products of carbon monoxide/dioxide.

6. ACCIDENTAL SRELEASE MEASURES**SMALL SPILL**

Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

LARGE SPILL

Remove all sources of ignition. Use spark-proof tools. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

ENVIRONMENTAL PRECAUTIONS**WATER SPILL**

Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for proper disposal.

LAND SPILL

Prevent contamination of soil, drains and surface waters. Dike and contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.

AIR SPILL

No data available

GENERAL PROCEDURES

Contain spill with dike to prevent entry into sewers. Absorb liquid and place in sealed containers for disposal

SPECIAL PROTECTIVE EQUIPMENT

Wear a self-contained breathing apparatus and appropriate personal protectiveequipment. (See Exposure Controls/Personal Protection Section).

7. HANDLING AND STORAGE

GENERAL PROCEDURES	Avoid breathing (dust, vapor, mist, gas). Avoid contact with skin, eyes and clothing. Keep container closed when not in use.
HANDLING	Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.
STORAGE	Store in a cool, well-ventilated area of low fire risk. Spray mist and vapors are flammable.
STORAGE TEMPERATURE	Ambient room temperature (70-80F/21-25C).
LOADING TEMPERATURE	No data available
LOADING/UNLOADING	No data available
VISCOSITY	

8. PERSONAL PROTECTION

EYES AND FACE	For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles. Preferably work in a chemical fume hood cabinet.
SKIN	Safety glasses, neoprene gloves and protective apron are recommended for use.
RESPIRATORY	If ventilation is not adequate, wear NIOSH approved respiratory protection
PROTECTIVE CLOTHING	Wear protective clothing. Launder contaminated clothing before reuse.
WORK HYGIENIC PRACTICES:	Wash with soap and water. Get medical attention if irritation develops or persists

9. PHYSICAL AND CHEMICAL PROPERTIES
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PHYSICAL STATE	Flammable liquid and vapor.
ODOR	Characteristic odor, intensely irritating.
ODOR THRESHOLD	No data available
APPEARANCE	Thin liquid (color varies)
COLOR	Yellowish opaque
pH	No data available
PERCENT VOLATILE:	60%
FLASHPOINT AND METHOD	No data available
FLAMMABLE LIMITS	1.10% to 11.50%
AUTOIGNITION TEMPERATURE	464c
VAPOR PRESSURE	6.7 - 8.7 hPa
VAPOR DENSITY	1 (Air=1)
BOILING POINT	68°C (156°F) to 87°C (189°F)
FREEZING POINT	No data available
MELTING POINT	No data available
POUR POINT	No data available
THERMAL DECOMPOSITION	No data available
SOLUBILITY IN WATER:	No data available
PARTITION COEFFICIENT: N-OCTANOL/WATER	No data available
EVAPORATION RATE	: 9.2 - 13.5 (ether=1)
SPECIFIC GRAVITY	0.849 (water=1)
VISCOSITY #1:	No data available
(VOC):	No data available

10. STABILITY AND REACTIVITY

REACTIVITY	No
HAZARDOUS	No
POLYMERIZATION	
STABILITY	Stable
CONDITIONS TO AVOID	Heat, flames, ignition sources, and incompatibles.
POSSIBILITY OF HAZARDOUS REACTIONS	Hazardous reactions are possible when exposed to incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS INCOMPATIBLE MATERIALS	Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition Strong acids and alkalis, reactive metals and strong oxidizing agents
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11. TOXICOLOGICAL INFORMATION

Chemical	ORAL LD₅₀ (rat)	DERMAL LD₅₀ (rat)	INHALATION LD₅₀ (rat)
Xylene	3523 - 8600 mg/kg (Rat)	> 4200 mg/kg (Rabbit)	29 mg/l/4h (Rat)
Toluene	>5000 mg/kg	>5000 mg/kg	Low toxicity
Petroleum distillates	> 8000 mg/kg	4000 mg/kg	400 ppm per 4hr
Polychloroprene	N/A	N/A	N/A
Phenol Resin	>4700 mg/kg (rat)	630mg/kg (rabbit)	316 mg/kg (rat)
Hydrophobic compounds	N/A	N/A	N/A
Dyes	N/A	N/A	N/A

EYE EFFECTS	Mildly to moderately irritating.
SKIN EFFECTS	Irritating to skin. May cause allergic skin reaction with prolonged contact.
CHRONIC	Repeated exposure may cause skin dryness or cracking.
SUBCHRONIC	No data available
CARCINOGENICITY	No data available
IRRITATION	May cause eye irritation, skin irritation and irritation of respiratory tract.
CORROSIVITY	No data available
SENSITIZATION	No data available
NEUROTOXICITY	May cause central nervous system effects.
GENETIC EFFECTS	No data available
REPRODUCTIVE EFFECTS	No data available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA:	Avoid runoff into storm sewers and ditches which lead to waterways and sea.
ECOTOXICOLOGICAL INFORMATION	No data available
BIOACCUMULATION/ACCUMULATION	No data available
AQUATIC TOXICITY (ACUTE)	No data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD FOR LARGE SPILLS	Dispose of in a manner consistent with federal, state, and local regulations. Prevent contamination of soil, drains and surface waters. Dike and contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly
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14. DISPOSAL CONSIDERATIONS

DOT (DEPARTMENT OF TRANSPORTATION)	
PROPER SHIPPING NAME:	UN1133, ADHESIVES CONTAINING FLAMMABLE LIQUID, 3, II AIR (ICAO/IATA)
AIR (ICAO/IATA)	
SHIPPING NAME	UN1133, ADHESIVES CONTAINING FLAMMABLE LIQUID, 3, II VESSEL (IMO/IMDG)
SHIPPING NAME	UN1133, ADHESIVES CONTAINING FLAMMABLE LIQUID, 3, II

15. REGULATORY INFORMATION

**UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND
REAUTHORIZATION ACT)**
FIRE:Yes **PRESSURE GENERATING:**No **REACTIVITY:**No
ACUTE:No **CHRONIC:**Yes
313 REPORTABLE INGREDIENTS: Section 313: Xylene, Toluene.

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Xylene	30	1330-20-7
Toluene	30	108-88-3
Petroleum distillates	10	

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CAS
Xylene	30	1330-20-7
Toluene	30	108-88-3
Petroleum distillates	10	

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	Wt.%	CAS
Xylene	30	1330-20-7
Toluene	30	108-88-3
Petroleum distillates	10	

15. OTHER INFORMATION

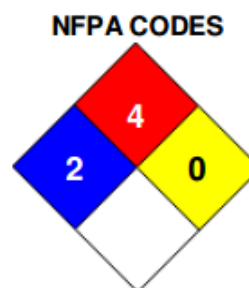
APPROVED BY Regulatory Department

PREPARED BY Regulatory Department

Date-Revised:02/25/2016

HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	4
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	



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