

Safety Data Sheet

according to UK REACH Regulation

Revision: October 25, 2022,

version number 2.0

Trade name: Bead Sealer

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Bead Sealer**
- **Article number:** 600 5002, 600 5002B, 600 5002G
- **Other means of identification:** None
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Sealer for bead
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
 HARTEC SAL
 Hartec Building, Industrial Area
 Roumieh, Lebanon
 Po Box 80-1030
 Tel: +961 1 241900

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to GB CLP Regulation**
- **Hazard Class and Category Code(s)**
- Flam. Liq. 2
- Asp. Tox. 1
- Skin Irrit. 2
- STOT SE 3
- Aquatic Acute 1
- Aquatic Chronic 1
- **Hazard statement Code(s)**
- H225
- H304
- H315
- H336
- H400
- H410

Classification	Classification procedure
Flam. Liq. 2; H225	based on test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 2; H411	Calculation method

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Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

2.2 Labelling
GB CLP Regulation
· Hazard-determining components of labelling:

Heptane

· Signal Word:

Danger

· Pictograms:


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Signal Word code:

GHS02

GHS08

GHS07

GHS09

Dgr

According to the harmonized classification and labelling (ATP01) approved by the European Union, this substance may be fatal if swallowed and enters airways, is very toxic to aquatic life, is very toxic to aquatic life with long lasting effects, is a highly flammable liquid and vapor, causes skin irritation and may cause drowsiness or dizziness.

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Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P261

Avoid breathing mist/vapours/spray.

P280 Wear protective gloves / eye protection. P233 Keep container tightly closed.

P264 Wash thoroughly after handling.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P331 Do NOT induce vomiting.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

-Hazard description

Hazard statement code:

H225, H304, H315, H336, H410

-WHMIS-symbols:

B2 - Flammable liquid

D2B - Toxic material causing other toxic effects



· NFPA ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

· HMIS Long Term Health Hazard Substances

Long term exposure limit 2085 mg/m³ or 500 ppm.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Vapors may form explosive mixture with air.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description: Preparation solved in Petroleum liquid.

Dangerous components:

Property	Result
Component Name	Heptane
CAS number	142-82-5
Index Number	601-008-00-2
EC number	205-563-8
Quantity	85-90%
GHS requirements	Xn R65; Xi R38; F R11; N R50/53; Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; STOT SE 3, H336
Specific Conc. Limits, M-factors and ATEs (*) (*) ATEs for oral and dermal exposure routes are expressed in mg/kg bw, which stands for milligram per kilogram bodyweight.	None specified

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably inside position for transportation.

After skin contact:

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

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Trade name: Bead Sealer**· After swallowing:**

- Rinse out mouth and then drink plenty of water.
- Do not induce vomiting; call for medical help immediately.
- A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty

Dizziness

Coughing

Allergic reactions

Gastric or intestinal disorders when ingested.

Irritant to skin and mucous membranes.

Irritant to eyes.

Disorientation

· Hazards

Danger of pulmonary oedema.

Danger of pneumonia.

Danger of impaired breathing.

May be harmful in contact with skin.

May be harmful if inhaled.

Repeated exposure may cause skin dryness or cracking.

Vapors may cause drowsiness and dizziness.

· 4.3 Indication of any immediate medical attention and special treatment**needed** If swallowed, gastric irrigation with added, activated carbon.

If necessary, oxygen respiration treatment.

If swallowed or in case of vomiting, danger of entering the lungs.

Later observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media**· Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water. **· For safety reasons unsuitable extinguishing agents:** Water**· 5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· 5.3 Advice for firefighters**· Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information: Eliminate all ignition sources if safe to do so.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment, and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation. Keep away from ignition sources. Protect from heat.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Allow to solidify. Pick up mechanically.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Pick up mechanically.

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas. Use only in well ventilated areas.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Flammable gas-air mixtures may form in empty receptacles.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

· **Further information about storage**

conditions: Store in cool, dry conditions in well-sealed receptacles. Keep container tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Substance: Heptane

Derived No- or Minimal Effect Level (DN(M)EL)	Type		Limit
	For Workers	Inhalation exposure	2085 mg/m ³
	For Workers	dermal Exposure	447 mg/m ³
	For population	Inhalation exposure	300 mg/kg
	For population	dermal Exposure	149 mg/kg
	For population	Oral exposure	149 mg/kg

REL (USA) Long-term value: 350 mg/m³, 85 ppm
Ceiling limit: 1800* mg/m³, 440* ppm *15-min

Short-term value: 2050 mg/m³, 500 ppm TLV (USA)
Long-term value: 1640 mg/m³, 400 ppm

Short-term value: 500 ppm EL (Canada)
Long-term value: 400 ppm

Short-term value: 2,045 mg/m³, 500 ppm EV (Canada)
Long-term value: 1,635 mg/m³, 400 ppm

9006-04-6 Natural rubber latex

TLV (USA) Long-term value: 0,0001* mg/m³
Skin; (SEN) NIC-DSEN, RSEN; * inh. fraction
EL (Canada) Long-term value: 0,001 mg/m³
inhalable, Skin; S

Long-term value: 0,001 mg/m³ EV (Canada) as
total proteins, inhalable, Skin

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages, and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

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Trade name: Bead Sealer**Respiratory protection:**

Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations are present.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Protection of hands: Protective gloves

The glove material must 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.

Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time must be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses

Body protection: Protective work clothing**Limitation and supervision of exposure into the environment**

No further relevant information available.

Risk management measures

See Section 7 for additional information.

No further relevant information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Physical State: Liquid

Color: Black

Odor: Ester-like

Odor threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range: Not Determined.

Boiling point/Boiling range: 93 °C (199 °F)

Flash point: 0 °C (32 °F)

Flammability (solid, gaseous): Not applicable.

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- **Auto/Self-ignition temperature:** 215 °C (419 °F)
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/ vapor mixtures is possible.
- **Explosion limits: Lower:** 1,1 Vol % **Upper:** 6,7 Vol %
- **Vapour pressure at 20 °C (68 °F):** 48 hPa (36 mm Hg)
- **Density at 20 °C (68 °F):** 1.30 g/cm³.
- **Relative density:** Not determined
- **Vapor density:** Not determined
- **Evaporation rate:** Not determined
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**

Flammable.
Reacts violently with oxidizing agents.
Used empty containers may contain product gases which form explosive mixtures with air.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Toxic fumes may be released if heated above the decomposition point.
- **10.4 Conditions to avoid**

Keep away from heat and direct sunlight.
Keep ignition sources away - Do not smoke.
Store away from oxidizing agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Substance: Heptane

Acute Toxicity	Type	Limit
	Oral	5000 mg/kg
	Inhalation	LC50 (4 h) 29.29 - 73.5 mg/L air (rat) LC0 (4 h) 29.29 mg/L air (rat)
	Dermal	LD50 2 000 mg/kg bw (rabbit)
Genetic toxicity	None	
Carcinogenicity	none	
Toxicity to reproduction	none	
Immunotoxicity	No available data	

Primary irritant effect:

- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

Danger through skin adsorption.

Inhalation of concentrated vapors as well as oral intake will lead to anesthesia-like conditions and headache, dizziness, etc.

Toxic and/or corrosive effects may be delayed up to 24 hours.

Acute effects (acute toxicity, irritation and corrosivity):

May be harmful if swallowed.

May be harmful in contact with skin. May be harmful if inhaled.

vapors have narcotic effect.

May be fatal if swallowed and enters airways.

Causes skin and eye irritation.

- **Sensitization:** May cause an allergic skin reaction.

Repeated dose toxicity:

Repeated exposure may cause skin dryness or cracking.

Repeated exposures may result in skin and/or respiratory sensitivity.

11.2. Information on other hazards

11.2.1 Endocrine disrupter mammalian screening - in vivo: No available data

11.2.2 Information on other hazards: no data available

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SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:** Toxic for aquatic organisms

Substance: Heptane

Ecotoxicological Information	Type	Limit
	Short-term toxicity to fish	5.738 mg/L
	Long-term toxicity to fish	1.278 mg/L
	Short-term toxicity to aquatic invertebrates	EC50 (48 h) 1.5 mg/L EL50 (48 h) 3.9 mg/L
	Long-term toxicity to aquatic invertebrates	NOEC (21 days) 170 µg/L LOEC (21 days) 320 µg/L EC50 (21 days) 230 µg/L EC50 (48 h) 640 µg/L NOELR (21 days) 1 mg/L
	Toxicity to aquatic algae and cyanobacteria	EL50 (72 h) 4.338 mg/L NOELR (72 h) 970 µg/L

· **12.2 Persistence and degradability** Easily biodegradable

· **12.3 Bio accumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** no available data

· **12.7 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· DOT, ADR, IMDG, IATA UN1206

· 14.2 UN proper shipping name

· DOT Heptanes

· ADR 1 2 0 6 H E P T A N E S , E N V I R O N M E N T A L L Y H A Z A R D O U S

· IMDG, IATA HEPTANES

· 14.3 Transport hazard class(es)

· DOT



· **Class 3** Flammable liquids.

· **Label 3**

· **ADR**



· **Class 3 (F1)** Flammable liquids.

· **Label 3**

· **IMDG, IATA**



· **Class 3** Flammable liquids.

· **Label 3**

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- 14.4 Packing group
- DOT, ADR, IMDG, IATA II
- 14.5 Environmental hazards:



- Marine pollutant: yes
- Special marking (ADR): Symbol (fish and tree)
- 14.6 Special precautions for user Warning: Flammable liquids.
- Danger code (Kemler): 33
- EMS Number: F-E,S-D
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
- Transport/Additional information:
- ADR
- Limited quantities (LQ) 1L
- Transport category 2
- Tunnel restriction code D/E
- UN "Model Regulation": U N 1 2 06 , H EPTA N ES, EN VIR O N M EN T AL L Y HAZARDOUS, 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture United States (USA)

- Section 355 (extremely hazardous substances):

None of the ingredients are listed.

- Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65 (California):

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

- Carcinogenic Categories

- EPA (Environmental Protection Agency)

142-82-5

heptane

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- **IARC (International Agency for Research on Cancer)**
None of the ingredients are listed.
- **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients are listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients are listed.
- **Canada**
- **Canadian Domestic Substances List (DSL)**
All ingredients are listed.
- **Canadian Ingredient Disclosure list (limit 0.1%)**
None of the ingredients are listed.
- **Canadian Ingredient Disclosure list (limit 1%)**
142-82-5 heptane
- **Other regulations, limitations, and prohibitive regulations**
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. · **Substances of very high concern (SVHC) according to REACH, Article 57**
None of the ingredients are listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

R11 Highly flammable.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed.

R67 Vapors may cause drowsiness and dizziness.

· **Abbreviations and acronyms:**

ADR: Accord European sur le transport des marchandises danger uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

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DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration
(REACH)LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1