

**SAFETY DATA SHEET<sup>11</sup>**

Trade Name: SBP 60/95

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**1: Identification**

Commercial Product Name: SBP 60/95

Proper Shipping Name : HEXANE (all isomers)

Manufacturer: Gadiv Petrochemical Industries Ltd.

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Management

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**2: Composition/Information on Ingredients**

Chemical characterization: Clear water-white liquid, mild characteristic odor

Hazardous ingredients:

Chemical name	CAS-No	EINECS-No	Conc. %	Classification
Pentane	109-66-0	203-692-4	0-2%	R12, R51/53, R65, R66, R67, F+, Xn, N
Hexane	110-54-3	203-777-6	>55%	R11, R38, R48/20, R62, R65, R67, R51/53, F, Xn, N
Methylcyclopentane	96-37-7	202-503-2	10-20%	
2-Methylpentane	107-83-5	203-523-4	4-6%	
3-Methylpentane	96-14-0	202-481-4	5-8%	
Heptane	142-82-5	205-563-8	20-30%	R11, R38, R50/53, R65, R67, F+, Xn, N
Methylhexanes	N/A		8-10%	
Dimethylpentanes	N/A		1-5%	
Methylcyclohexane	108-87-2	203-624-3	1-2%	R11, R38, R51/53, R65, R67, F, Xn, N
Toluene	108-88-3	203-625-9	0.05%	R11, R38, R48/20, R63, R65, R67, F, Xn

(See full text of R-phrases in chapter 16.)

### **3: Hazards Identification**

R11: Highly Flammable

Human health hazard:

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R62: Possible risk of impaired fertility.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapors may cause drowsiness and dizziness

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### **4: First Aid Measures**

**Symptoms:** Toxic, mainly via inhalation. Irritating to eyes, respiratory system and skin. Depresses the central nervous system. By ingestion: may cause local irritation with burning sensation in mouth, oesophagus and stomach, vomiting, blurred vision and diarrhea. By eye contact: may cause redness and pain. In high enough concentrations, may cause burns on contact, loss of appetite, muscle weakness, impairment of motor action, dizziness and drowsiness, breathing difficulties, confusion, drowsiness, loss of consciousness. The liquid acts as a defatting agent on the skin. Chronic exposure may cause drying and cracking of the skin and associated dermatitis.

**Skin contact:** Immediately remove contaminated clothing and shoes. Rinse with large amounts of water and soap for at least 10 minutes. Get medical attention as necessary. Do NOT use solvents or thinners.

**Eyes contact:** Rinse open eyes under running water for at least 15 minutes. Get medical attention. Never give anything by mouth to an unconscious person.

**Ingestion:** Do NOT induce vomiting. If victim is conscious, give three cups of water. Get medical attention as necessary. Do not administer liquids to unconscious persons.

**Inhalation:** Using protective gear, evacuate victim from site of exposure. Have victim lie or sit comfortably. If he has difficulty breathing, have him sit with back straight and administer oxygen, if possible. If victim is unconscious, perform resuscitation and then immediately transfer to medical personnel.

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### **5: Fire-Fighting Measures**

**Flammability:** Extremely Flammable.

**Suitable extinguishing media:** Dry chemical, foam or carbon dioxide.

Water may be ineffective.

Above flash point, vapor-air mixtures are explosive within flammable limits. Sealed containers may rupture when heated. Sensitive to static discharge. Vapors can flow along surfaces to distant ignition source and flash back. Water spray may be used to keep fire exposed containers cool.

In the event of a fire, wear full protective cloths and self-contained breathing apparatus.

## **6: Accidental Release Measures**

Wear full protective clothing . Evacuate personnel.

Highly flammable liquid. Eliminate all sources of ignition. Stop the leakage if you can do so without risk. Absorb the chemical onto sand, vermiculite, or any other non-combustible absorbent, and scoop into containers for later disposal. Check local regulations before dumping waste or disposing of liquids in drainage system. Prevent the product from spreading into the environment.

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## **7: Handling and Storage**

Keep away from incompatible materials (see section 10).

Flammable liquid. Keep away from flame, sparks, static electricity, friction or any other heat source that may cause ignition. Keep in well-ventilated area. In areas of storage and use, it is advisable that the electrical system will be adjusted to working in an explosive atmosphere.

### Safety phrases

S02: Keep out of the reach of children.

S09: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S29: Do not empty into drains.

S33: Take precautionary measures against static discharges.

S36/37: Wear suitable protective clothing and gloves.

S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Storage: Store in a cool, dry, well-ventilated area. Store separately from oxidizing agents . Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid)

Danger! Do not open unless contents are at room temperature or below.

Allow at least 24 hours for material to cool to room temperature before opening container.

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## **8: Exposure Control and Personal Protection**

Threshold values:

Exposure limits for total product:

200 ppm (360 mg/m<sup>3</sup>) for 8-hour workday

For Hexane:

ACGIH-TLV 50 ppm (TWA) skin

OSHA-PEL 500 ppm (TWA)

NIOSH-REL 50 ppm (TWA)

For Heptane

OSHA-PEL 500 ppm (TWA)

ACGIH-TLV 400 ppm (TWA) 500 ppm (STEL)

NIOSH-REL 85 ppm (TWA) 440 ppm 15 minutes (CEIL)

IDLH: (Immediately Dangerous to Life and Health):

1100 ppm (Hexane)

750 ppm (Heptane)

Personal Protective equipment: Generally, personal protection is a function of exposure. It is recommended to use working shoes, working clothes or lab coat. Working should be done in a well-ventilated area.

In addition: Vapor respirator, gloves, safety goggles.

Respiratory protection: Mask and filter for organic compounds. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

In case of an emergency: Full protective gear and a self-contained breathing apparatus should be used, according to the severity.

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### **9: Physical and Chemical Properties:**

General information:

Form: liquid

Color: white

Odour: mild, characteristic odor

Important health, safety and environmental information:

Boiling point °C: 60-95

Freezing point °C: N/A

Molecular weight : 92

Density g/cm<sup>3</sup> (15.6/15.6°C): 0.67-0.70

Vapor density (air=1): Approx. 3.0

Vapor pressure (mmHg)(25°C) : Approx. 140

Solubility (in water) 25 °C: negligible less than 0.1%.

pH: Essentially neutral

Flash point °C: Less than -18 Tag Closed Cup

Auto-ignition temperature °C: Approx. 288

LEL: 1.1% UEL: 5.9%

Viscosity (20°C): 0.38 mPas

Evaporation rate (n-Butyl Acetate=1) 1 ATM 25 °C: 16

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### **10: Stability and Reactivity**

Hazardous polymerization: Will not occur.

Chemical reactivity: Stable under ordinary conditions of use and storage. Keep away from sources of ignition, heat and sunlight. Keep away from strong oxidizers. Will attack some forms of plastics, rubber and coatings.

Hazardous decomposition products: On fire emits toxic and irritating fumes.

### **11: Toxicological Information**

For the product:

LD50 (oral rat) 28710 mg/kg

LD50 (dermal rabbit) 14100 ul/kg

LC50 3400 ppm 4 hr

For hexane:

LD50 oral rat) 28710 mg/kg

For Heptane:

LC50 (inhalation rat) 103 mg/m<sup>3</sup> 4 hr

Carcinogenicity:

Toluene

IARC-GROUP 3: Unclassifiable as to carcinogenic to humans

ACGIH A4: Not classifiable as a Human Carcinogen.

### **12: Ecological Information**

Environmental hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Biodegradability: no information found

### **13: Disposal Considerations**

According to the Israeli regulations, a holder of this waste must evacuate it as soon as possible and not later than 6 months after the production of the waste, to the Ramat-Hovav waste site. The waste should be packed and transported according to the regulations. For packing group and transport classification of the waste refer to section 14.

### **14: Transport Information**

UN recommendations: UN 1268

Proper shipping name: PETROLEUM DISTILLATES or PETROLEUM PRODUCTS

Class 3

Packing group: II

LABEL: "FLAMMABLE LIQUIDS": 3YE

Sea transport:

IMDG: UN 1268

Class: 3

Proper technical name: PETROLEUM DISTILLATES or PETROLEUM PRODUCTS

Packing group: II

Air transport:

ICAO/IATA: UN 1268

Class: 3

Proper technical name: PETROLEUM DISTILLATES or PETROLEUM PRODUCTS

Packing group: II

Estimated NFPA: H: 2 F: 3 R: 0

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### **15: Regulatory Information**

Labeling in accordance with EC directives

Symbol and indicating of hazard:

**F** Highly flammable

**Xn** Harmful

**N** Dangerous for the environment



#### R-phrases:

R11: Highly Flammable

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R62: Possible risk of impaired fertility.

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R67: Vapors may cause drowsiness and dizziness

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### S-phrases:

S02: Keep out of the reach of children.

S09: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S29: Do not empty into drains.

S33: Take precautionary measures against static discharges.

S36/37: Wear suitable protective clothing and gloves.

S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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**16: Other Information**

Full text of R-phrases appearing in section 2:

R11: Flammable.

R12: Extremely flammable.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53: Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

R62: Possible risk of impaired fertility.

R63: Possible risk of harm to the unborn child.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapors may cause drowsiness and dizziness

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The information herein is based on the present state of our knowledge. It is believed to be correct but is not necessarily all inclusive and shall be used only as a guide. BAZAN Ltd, and Haz-Mat Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. For further information, contact BAZAN Ltd or contact Haz-Mat at [hazmat@hazmat.co.il](mailto:hazmat@hazmat.co.il).