

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

Product

Trade name: Refrigerant oil--HBR-B04

Product introduction: Synthetic ester base oil and additives

Recommended use: Compressor lubricating oil

Company information

supplier: Shanghai Hanbell Precise Machinery Co.,Ltd

Address: No. 8289, Tingfeng Road, Fengjing town, Jinshan District, Shanghai

Zip code: 201501

24-hour emergency telephone: (+ 86) 0532-83889090 (Chemical Registration Center of State Administration of work safety)

Supplier contact number: (+86) 021-57350280

Section 2: Hazards identification

Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

Label elements

Label elements: This product has no label elements.

Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Section 4: First aid measures

Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Flush the eye immediately with water. If discomfort persists, obtain medical attention.

Ingestion: If swallowed, do not induce vomiting. Never administer anything by mouth if a casualty is losing consciousness, is unconscious or is convulsing. Wash out mouth with water. If rapid recovery does not occur, obtain medical attention.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: No symptoms.

Inhalation: No symptoms.

Delayed / immediate effects: Not applicable.

Indication of any immediate medical attention and special treatment needed

Immediate/special treatment: Not applicable.

Section 5: Fire-fighting measures

Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Use water spray to cool containers.

Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leakside up to prevent the escape of liquid.

Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: We recommend storing in original packaging.

Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing. Ensure safety showers is to hand.

Environmental: Refer to specific Member State legislation for requirements under Community environmental legislation.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

State: Liquid
Colour: Water white or pale yellow
Odour: Pleasant
Evaporation rate: No data available.
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Insoluble
Viscosity: 220 mm²/s
Viscosity test method: ASTM D445 at 40 °C
Boiling point/range °C: >250
Melting point/range °C: No data available.
Flammability limits %: lower: No data available.
upper: No data available.
Flash point °C: >260 (COC)
Part. coeff. n-octanol/water: No data available.
Auto flammability °C: No data available.
Vapour pressure: No data available.
Relative density: 0.970
pH: No data available.
VOC g/l: No data available.

Other information

Other information: Pour point °C < -20 (typical).

Section 10: Stability and reactivity

Reactivity

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid

Conditions to avoid: Sources of ignition. Flames. Heat.

Incompatible materials

Materials to avoid: Strong acids. Strong bases. Oxidising agents.

Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

*11.1. Information on toxicological effects

Excluded hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	No hazard: calculated
Acute toxicity (ac. tox. 3)	-	No hazard: calculated
Acute toxicity (ac. tox. 2)	-	No hazard: calculated
Acute toxicity (ac. tox. 1)	-	No hazard: calculated
Skin corrosion/irritation	-	No hazard: calculated
Serious eye damage/irritation	-	No hazard: calculated
Respiratory/skin sensitization	-	No hazard: calculated
Germ cell mutagenicity	-	No hazard: calculated
Carcinogenicity	-	No hazard: calculated
Reproductive toxicity	-	No hazard: calculated
STOT-single exposure	-	No hazard: calculated
STOT-repeated exposure	-	No hazard: calculated
Aspiration hazard	-	No hazard: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: No symptoms.

Inhalation: No symptoms.

Delayed / immediate effects: Not applicable.

Other information: Not applicable.

Section 12: Ecological information

Toxicity

Ecotoxicity values: No data available.

Persistence and degradability

Persistence & degradability: Readily biodegradable.

Bioaccumulative potential

Bioaccumulative potential: No data available.

Mobility in soil

Mobility: Insoluble in water.

Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of as normal industrial waste.

Recovery operations: Storage of waste pending any of the other recovery operations (excluding temporary storage, pending collection, on the site where the waste is produced).

Waste code number: 13 02 06

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Global Chemical Inventories: EC (EINECS) - All listed or exempted components. China (IECSC) - All components listed or exempt. Philippines (PICCS) - All components listed or exempt. Japan (ENCS) - All components listed or exempt.

Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Company Name: Shanghai Hanbell Precise Machinery Co.,Ltd

Tabulation Company:

Address/Phone: No. 8289, Tingfeng Road, Fengjing town, Jinshan District, Shanghai/ (+86) 021-57350280

Tabulator

Title: Researcher

Name: yaoweiguo

Tabulation date

2022/02/22

Remarks

