

# Guangdong Sanvo Chemical Industry Technology Limited

## Safety Data Sheet

### 1. Identification of Chemicals and Manufacturer

English name of chemical: SANVO Threadlocker SH-222

Manufacturer: Guangdong Sanvo Chemical Industry Technology Limited

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Recommended use: Thread locking and sealing of metal parts

### 2. Hazards Identification

#### EMERGENCY OVERVIEW

WARNING: CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.  
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

#### Health hazards

Skin irritation	Category 2
Eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ system toxicity primary contact	Category 2

#### Label elements

##### Pictograms



#### Hazard statement

##### Prevention

Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.

##### Response

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

Storage Not prescribed

Disposal Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

### 3. Component/ Composition Information

Substance/mixture	Mixture	
Chemical Entity	CAS No.	Proportion (%)
Epoxy acrylic resin	71281-65-7	50-55
Hydroxypropyl methacrylate	27813-02-1	30-40
Diethylene glycol dibenzoate	120-55-8	7-15
Cumene hydroperoxide	80-15-9	3-5
O-sulfonylbenzimidazole	81-07-2	3-5
Complexing agent	60-00-4	1-3
DCP	80-15-9	1-3
Promoter	/	0.1-1
Polymerization inhibitor	/	0.1-0.5
Dyeing	/	0.5-1

### 4. First aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

### 5. Fire-fighting measures

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

- Unusual fire or explosion hazards: Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.
- Hazardous combustion products: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedure

#### For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

#### For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

#### Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

#### Clean-up methods and materials and containment measures

Stop leak if you can do so without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

### Handling

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8

### Storage

For safe storage, store at or below 38 °C (100.4 °F)  
Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

## 8. Exposure Controls / Personal Protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

### Engineering measures:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched

to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower should be available when handling this product.

**Respiratory protection:**

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

**Hand protection:**

Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton/butyl.

**Eye protection:**

Wear safety glasses with side shields (or goggles).

**Skin and body protection:**

Wear appropriate chemical resistant clothing.

**9. Physical and chemical properties**

Appearance	
<b>Physical state</b>	Liquid
<b>Color</b>	Red
<b>Odor:</b>	Mild
<b>Odor threshold</b>	Not available
<b>pH value:</b>	Not applicable.
<b>Melting point/freezing point (°C)</b>	Not available.
<b>Boiling point/range:</b>	> 148.9 °C (> 300°F)
<b>Initial boiling point (°C)</b>	Not available.
<b>Boiling range (°C)</b>	Not available.
<b>Flash point (°C)</b>	> 93.3 °C (> 199.94 °F) Tagliabue closed cup
<b>Flammable/Explosive limits -lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Specific gravity</b>	1.1
<b>Vapor density</b>	Not available.
<b>Vapor Pressure (kpa)</b>	<5 mm hg(26.7°C(80.1°F)).
<b>Ralative Vapor density (air = 1)</b>	0.83~0.88
<b>Solubility</b>	Slightly soluble in water, soluble in esters, aromatic, chloroform and other organic solvents.
<b>N - octanol/water distribution coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability</b>	Not applicable

**Evaporation rate** Not available.  
**Viscosity** Not available.

## 10. Stability and reactivity

**Stability:** Stable under normal conditions of storage and use.  
**Hazardous reactions:** None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.  
**Hazardous decomposition products:** Phenolics. Oxides of sulfur. Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.  
**Incompatible materials:** Strong oxidizing agents. Strong acids. Copper. Iron. Strong reducing agents. Rust.  
**Reactivity:** Not available.  
**Conditions to avoid:** Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

## 11. Toxicological information

**Relevant routes of exposure:**  
**Potential Health Effects/Symptoms**  
**Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system.  
**Skin contact:** Causes skin irritation. May cause allergic skin reaction.  
**Eye contact:** Causes serious eye irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

## 12. Ecological information

**Environmental destruction and distribution:** possible pollution of air and water. Low toxicity to fish and mammals.

**Persistence and degradation:** volatile components can be photolyzed, and steam residues can be slowly oxidized and degraded by organisms and microorganisms.

**Toxicity:** it has the potential of low toxicity and biochemical enrichment to prevent the growth of organisms and Microorganisms.

### 13. Disposal considerations

**Residual waste:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

**Local disposal regulations:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

### 14. Transport information

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

#### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**DOT Hazardous Substance(s):** alpha,alpha-Dimethylbenzylhydroperoxide

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

#### Water Transportation (IMO/IMDG)

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

### 15. Regulatory Information

Regulatory information:

Regulations on the safety management of hazardous chemicals (order 344 of the state council)

Measures for the administration of hazardous chemicals registration (order No. 35 of the state economic and trade commission)

Regulations on the registration and administration of hazardous chemicals in Guangdong province (Guangdong economic and trade security [2003] No. 80)

Regulations on the safe use of chemicals in the workplace ([1996] No. 423 issued by the department of labor)

Relevant provisions are made for the production, operation, storage, transportation, use and disposal of hazardous chemicals.

## 16. Other information

Literary reference

1. Global uniform classification and labelling of chemicals (second revision), 2007
2. Model regulations for the transport of dangerous goods ,2015
3. International maritime dangerous goods (edition 34-08)
4. Technical manual for hazardous chemical safety, Chemical industry press, 1997
5. Regulations on the safety management of hazardous chemicals, 2011
6. Dangerous goods list (GB12268-2012)
7. Classification and code of dangerous goods (GB6944-2012)
8. Compilation of technical specification for hazardous chemical safety (GB16483-2000)
9. Classification and marking of common hazardous chemicals (GB13690-92)

Professional training: personnel engaged in the handling or transportation of dangerous goods must receive training on the content of requirements related to the handling or transportation of dangerous goods, general knowledge or familiarity training, specific functional training and safety training, etc.

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