Takrun 8000

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	**Takrun 8000**
Product Description	**Mineral Base Stock and Additives**
Product use	**Gasoline Engine**
Manufacturer & Supplier	**TABCHEM**
Address	**TABCHEM CHEMICAL INDUSTRIES COMPANY, NO. 97, 5TH FLOOR,SOUTH IRANSHAHR STREET, BELOW SOMAYEH STREET, TEHRAN, IRAN**
Phone Numbers	**+98 21 8884 0868**
Fax Number	**+98 21 8882 8776**
Email	**info@tabchem.ir**
Website	**https://tabchem.ir**

2. HAZARDS IDENTIFICATION

Classification of the product (GHS)

Based on available data this substance/ mixture does not meet the Classification criteria.

Label elements (GHS)

- **Hazard pictogram** — No Hazard symbol required
- **Signal word** — No signal word

Hazard statement (GHS)

PHYSICAL HAZARDS:
Not classified as a physical hazard under GHS criteria.
HEALTH HAZARDS:
Not classified as a health hazard under GHS criteria.
ENVIRONMENTAL HAZARDS:
Not classified as an environmental hazard under GHS criteria.

- **Precautionary statement (GHS)**

Prevention	No precautionary phrases.
Response:	No precautionary phrases.
Storage	No precautionary phrases.
Disposal	No precautionary phrases.

Other hazards

This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

NFPA:

Flammability

Health  **Reactivity**

Specific Hazard

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Substance/ mixture Mixture

Component	Identifier	Weight Percent Range	GHS Hazard Codes
Highly Refined Base Oil (IP 346 DMSO extract <3%)	Mixture	>86	
Zinc Dialkyl Dithiophosphate	CAS No.: 68649-42-3 EC No.: 272-028-3	< 1.2	H315, H318, H411

4. FIRST AID MEASURES

General information: Not expected to be a health hazard when used under normal conditions.

Eye contact: Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If product is hot, treat for thermal burns and seek immediate medical attention.

Skin contact: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. If product is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately.

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Advice to physicians: Treatment should in general be symptomatic and directed to be relieving any effects.
In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain.
Immediate treatment at a surgical emergency center is recommended.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel

Products of combustion Carbon oxides (CO, CO2)

Unusual fire/explosion hazards Non-explosive in the presence of the following products or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.

Fire-fighting media and instructions
In case of fire, use foam, dry chemical or Carbon dioxide extinguisher or spray. **Do not use water jet.**

Protective clothing (fire) Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Specific hazards arising from the chemical
Fire may produce irritating, corrosive and/or toxic gases. Heating may cause a fire or explosion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes.

Environmental precautions: Avoid dispersal of spilled product and run off and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent product e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent product may pose the same hazard as the spilled product.

Small spill: Stop leak if there is no risk. Move containers from spill area. Absorb with an inert dry product and place in an appropriate waste disposal container. Scrub the area with detergent and water.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and clothing. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limits

Name of Agent	CAS No.	Type	Exposure Limits	
			TLV	OEL
Highly Refined Base Oil (IP 346 DMSO extract <3%)	-	TWA STEL	5 mg/m^3 Not Listed	5 mg/m^3 Not Listed
Zinc Dialkyl Dithiophosphate	CAS No.: 4259-15-8	TWA STEL	Not Listed Not Listed	Not Listed Not Listed

TWA: Time Weighted Average over 8 hours of work.
STEL: Short Term Exposure Limit during 15 minutes.

Personal protection:

Eyes Wear chemical safety goggles with a face shield if splashing is likely to occur.

Inhalation Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

Skin Wear nitrile or rubber gloves, apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.

Other Mechanical ventilation is recommended.
If mist presents, chemical cartridge respirator is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Brown
Odor	Mild
Explosive limits	
UEL	-
LEL	-

NOTE: Petroleum vapors are flammable (explosive) in proportions between approximately 1% and 10% of vapor in air by volume at ambient temperatures and pressures.

Vapor Pressure	-
Relative Vapor Density	-
pH	Not applicable
Density at 15°C (kg/m^3)	888
Melting Point/Freezing Point	Not applicable
Solubility	Insoluble in water
Initial Boiling Point and Boiling Range	Not applicable
Flash Point (°C)	230
Flammability (Solid, Gas)	Not relevant (fluid)
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity at 40°C (cSt)	175
Pour point (°C)	-27

10. STABILITY AND REACTIVITY

Stability and reactivity	Stable under recommended storage conditions.
Conditions to avoid	Avoid excessive heat.
Incompatibility with various substances	Reactive or incompatible with the following products: Combustibles and strong oxidisers.
Hazardous decomposition products	Hazardous decomposition products are not expected during normal storage.
Hazardous polymerization	Will not occur.

11. TOXOCOLOGY INFORMATION

Toxicological data

Chemical Name	LC50 (4h) Rat, Inh.	LD50	
		Rat, Oral	Rabbit, Dermal
Highly Refined Base Oil (IP 346 DMSO extract <3%)	>5 mg/L (aerosol)	>5000 mg/kg	>5000 mg/kg
Zinc Dialkyl Dithiophosphate	Fish: LC50 96 h Brachydanio rerio 79.6 mg/L [semi-static]; LC50 96 h Pimephales promelas 3.2 mg/L [semi-static]	No data available	No data available
Mixture	No toxicological data is available for the mixture		

Note: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Acute Effects

Skin contact Not classified. Contact with skin may result in irritation.

Eye contact Not classified. May be an eye irritant.

Inhalation Not classified. Product may be an irritant to mucous membranes and respiratory tract.

Ingestion Not classified. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Acute Toxicity

Skin contact This product has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5000 mg/kg

Inhalation This product has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5000 mg/kg

Ingestion This product has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5000 mg/kg

Specific Effects

Carcinogenicity This product is not classified carcinogenic.

Mutagenicity This product is not classified as mutagenic.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

Repeated Dose Toxicity

Sub chronic toxicity No information is available.

Specific Target Organ Effects (STOT)

Specific target organ systemic toxicity (single exposure)

Not expected to cause organ damage from a single exposure.

Specific target organ systemic toxicity (repeated exposure)

Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials.

Aspiration toxicity May be fatal if swallowed and enters airways based on physicochemical properties of the material.

12. ECOLOGICAL INFORMATION

Mixtures

Eco-toxicity Not expected to be harmful to aquatic organisms.

Mobility Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids. Low potential to migrate through soil.

Persistence and degradability

Biodegradation: Data is not available

Bioaccumulation potential This Product has the potential to bio accumulate, however metabolism or physical properties may reduce the bio concentration or limit bioavailability.

13. DISPOSAL CONSIDERATIPONS

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Waste from residues/ unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This product and its container must be disposed of in a safe manner.

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.

Note: Refer to the waste management law of the parliament of the Islamic Republic of Iran in 1383 and the implementing regulations of the government of the Republic of Iran in 1384 to find out all the rules and regulations for waste disposal in the country.

14. TRANSPORT INFORMATION

	IMDG	IATA	DOT Classification/ NA Number
UN number	None allocated	None allocated	None allocated

Note: This product is not classified as dangerous good by ADG, IATA or IMDG/ IMBC criteria. No special transport conditions are necessary unless required by other regulations.

Land transport (ADR/ RID)

This product is not classified as dangerous for this mode of transport.

Inland waterways transport (ADN)

This product is not classified as dangerous for this mode of transport.

Sea transport (IMDG Code)

This product is not classified as dangerous for this mode of transport.

Air transport (IATA/ ICAO)

This product is not classified as dangerous for this mode of transport.

Shipping description (IMO/IMDG)

Petroleum lubricating oil not regulated as a hazardous material for transport.

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

OSHA/HCS status: This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

- SARA SECTIONS 301- 304:

  This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances List.

- SARA SECTION 311/312 (Hazard):

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

- SARA SECTION 313:
  This product does not contain any hazardous ingredients at or above regulated thresholds.
- The environmental protection Act (Environmental laws and Regulations of Iran-article 9)
- The regulation of control of hazardous products and flammable and explosive - (29, 30, 36 up 57 articles)
- The regulation of water pollution prevention– article 2
- The regulation of hazardous product road transportation – article 1
- Occupational exposure limit; 2019, center of excellence for occupational health, Tehran university of medical sciences, school of public health, ISBN: 978-964-5430-93-3
- TLVs and BEIs Based on the Documentation of the Defining the Science of Occupational and Environmental Health Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices; 2019, Defining the Science of Occupational and Environmental Health, ISBN: 978-1-607261-05-6

16. OTHER INFORMATION

HMIS III:

HEALTH	**1**
FLAMMABILTY	**1**
PHYSICAL	**0**
PERSONAL PROTECTION	**X**

0 = Insignificant, 1= Slight, 2= Moderate, 3= High, 4= Extreme, X= Ask supervisor or safety specialist for handling in instructions (Refer to 8 section).

Abbreviations and Acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service
EC: European Community
GHS: Globally Harmonized System
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
LC50: Lethal Concentration, 50%
LD50: Lethal Dose, 50%
OEL: Occupational Exposure Limit
PBT: Persistent, Bio accumulative and Toxic
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
SARA: Superfund Amendments and Reauthorization Act
SCBA: Self-Contained Breathing Apparatus
STEL: Short Term Exposure Limit
STOT: Specific Target Organ Toxicity
TLV: Threshold Limit Value
TWA: Time Weighted Average
vPvB: very Persistent and very Bio-accumulative