



**SAFETY DATA SHEET**

**B.O**

**MSDS No. : B.O.-2021**

**SECTION 1: Product and company Identification**

**1.1 Product Identifier**

Product Name: 180 N

Synonyms:

Base oil

Chemical Family: A mixture of hydrocarbons

**1.2 Product Use**

Lubricating oil

**1.3 Detail of the supplier of the safety data sheet**

**Manufacture / Supplier / Importer:** Tabriz Oil Refining Company

5 Tabriz – Azarshar Road

Tabriz,

East Azerbaijan,

I.R Iran.

Postal Cod: 5197131111

www.tabrizrefinery.co.ir

**Contact person:** General Information  
+98-4121148305  
info@tbzrefinery.co.ir

**Emergency telephone number:** +98- 4121149117-118

**SECTION 2: Hazard Identification**

**Danger:**

Flammable liquid.

Potential Health Effects

**Eye:** Contact may cause mild eye irritation including stinging, watering, and redness.

**Skin:** Contact may cause mild skin irritation including redness and a burning sensation.

Prolonged or repeated contact can defeat the skin, causing drying and cracking of the skin, and



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possibly dermatitis (inflammation). No harmful effects from skin absorption have been reported.

**Inhalation (Breathing):** No information available on acute toxicity.

**Ingestion (Swallowing):** No harmful effects reported from ingestion.

**Signs and Symptoms:** Effects of overexposure may include irritation of the digestive tract, nausea and diarrhea. Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

**Pre-Existing Medical Conditions:** Conditions which may be aggravated by exposure include skin disorders.

See Section 11 for additional Toxicity Information.

### SECTION 3: Composition / Information on Ingredients

CAS No.	Chemical Name	Weight%
A mixture	Base oil	0-100



#### SECTION 4: First aid measures

**Eyes:**

Flush eyes for at least 15 minutes with clean water. Patch lightly, allowing drainage. Seek medical attention.

**Skin:**

Remove non-adhering contaminated clothing. Cool adherent materials and burned areas with ice and/or cold water. Do not remove adherent material or clothing. Do not use solvents to remove asphalt from the skin. Seek medical attention.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. B.O. may be aspirated. If vomiting occurs naturally, have victim lean forward. If victim is conscious, give 2-4 glasses of water. Get medical aid at once.

**Inhalation:**

If swallowed, do not induce vomiting or give liquids. Seek immediate medical attention.

**Notes to Physician:**

Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

#### SECTION 5: Fire fighting measures

**General Information:** Released vapors may form flammable/explosive concentrations in confined areas. Grounding of containers/pouring equipment is necessary when transferring hot liquid product. Wear self-contained breathing apparatus and full protective gear. Use water spray to keep fire exposed containers cool. May accumulate static electrical charges, and may cause ignition of its own vapors. Vapor may cause flash fire. Vapors are heavier than air and may travel to source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.



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**Media:** Use dry chemical foam, or CO<sub>2</sub>. Water may be ineffective because it will not cool material below its flash point. Do not spray water onto burning hydrocarbon as this may cause spattering and spreading of the flame. For tank, rail car or tank truck, evacuation radius (800 meters or 1/2 mile)

Auto ignition Temperature: Not available

Flash Point: Min. 205

Explosion Limits: Not available

**SECTION 6: Accidental release measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material ( sand, earth) and place in suitable container for disposal. Clean up spills immediately. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal – caution, flammable vapors may accumulate in closed containers. Remove sources of ignition and heat. Avoid runoff into sewers and ditches. Provide ventilation and use non-sparking tools and equipment. A vapor suppressing foam may be used to reduce vapors. Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Carefully contain and stop the source of the spill, if safe to do so.

**SECTION 7: Handling and storage**

**Handling:** Wash thoroughly after handling. Remove contaminated clothing. Ground and bond containers when dispensing. Keep container tightly closed. Keep away from heat and flames and other ignition sources. Avoid breathing vapors. Use with adequate ventilation. Empty containers retain product residue and can be dangerous. This product is not sensitive to mechanical impact. This material may be sensitive to static discharge.

**Storage:** Store in cool, dry, well ventilated area away from incompatible materials. Keep away from sources of ignition and oxidizing materials. Keep in a bonded area. Keep / store only in original container



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**Other precautions:** Provide instruction and training for operators. Use personal protective as required. Avoid contact with skin, eyes and clothes. No smoking. Take any precaution to avoid mixing with incompatible materials.

NOTE: In case of using non-metallic (non- conductive) container such as PE, manufacture's advice taking is essential.

## SECTION 8: Personal protection / Exposure Control

**Engineering Controls:** Use with adequate general ventilation or local explosion-proof ventilation to keep airborne levels within acceptable limits. An eye wash fountain and safety shower should be in the immediate work area.

Chemical Name	ACGIH	OSHA
Mineral oil	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> (as Oil Mist, if generated)	5 mg/m <sup>3</sup> (as Oil Mist, if generated)

**Personal Protective Equipment:**

**Eyes:** Non-vented chemical goggles to protect against splashing of product into the eyes and to prevent eye irritation from the solvent vapors.

**Skin:** Wear appropriate gloves to protect hands.

**Clothing:** When handling hot product, insulated gloves should be worn. Clothing with full length sleeves and pants should be worn.

**Respirators:** Properly fitted air purifying masks equipped with organic vapor filters will provide protection at low concentrations. Wear NIOSH approved respiratory protection adequate for the expected concentration of the substance in the air

## SECTION 9: Physical and Chemical Properties

Physical State: Liquid

Color: Bright & Clear

Odor: Petroleum

Density (@ 15 C): TBR

Kinematic Viscosity @ 40 °C: 27-37 cSt



Odor threshold: Not available  
Flash point: Min 205 °C (ASTM D – 92)  
Boiling Point (or range): Not available  
Freezing/Melting Point: Not available  
Pour point: Max -6 °C

Solubility in water: Insoluble

Molecular Formula: Not available

Evaporation rate: Not available

Vapor pressure: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Explosive properties: Not available

## SECTION 10: Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Ignition sources, excess heat, electrical sparks, confined spaces.

**Incompatibilities with Other Materials:** Strong oxidizing agents, Halogens, Strong acids, peroxides, combustible Materials.

**Hazardous Decomposition Products:** Carbon dioxide, carbon monoxide.

**Hazardous Polymerization:** Not known to occur.

**SECTION 11: Toxicological Information****LD50/LC50:**

Not available

**Carcinogenicity:**

Not available

**Epidemiology:**

Not available

**Teratogenicity:**

Not available

**Reproductive:**

Not available

**Mutagenicity:**

Not available

**Neurotoxicity:**

Not available

**SECTION 12: Ecological Information**

Additional ecological information:

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable

**SECTION 13: Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**Tabriz Oil Refining Company****SAFETY DATA SHEET****B.O****MSDS No. : B.O.-2021****SECTION 14: Transport Information**

DOT number: Not available

UN proper shipping name: B-O

Transport hazard class (es) : Class: 3 – flammable liquid Packing Group: II

Hazard identification number (kemler No.) : Not Available



Classification code: Not Available

**SECTION 15: Regulatory Information**

US Federal: Not available

US State: Not available





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## SECTION 16: Other Information

**Risk Phrases:** R 11 (Highly Flammable)

NFPA Rating (Scale 0-4) : Health Hazard (0), Fire Hazard (1), Reactivity Hazard (0), Special Hazard (non-sign)

Safety Phrases:

S 16 (Keep away from sources of ignition - No smoking)

S 29 (Do not empty into drains)

S 33 (Take precautionary measures against static discharges)

S 36/37 (Wear suitable protective clothing and gloves)

S 9 (Keep container in a well-ventilated place)

Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.