



## Material Safety Data Sheet (MSDS) – Cutting Oil

**Product Name:** Cutting Oil (General Purpose)

**Supplier:** Basekim

**Country of Origin:** UAE / Turkey

**Recommended Use:** Metal machining, drilling, milling, turning, grinding operations.

**Product Type:** Straight or soluble cutting oil blend

**Emergency Contact Number:** Local emergency number or Basekim helpline

---

### Section 1: Identification

- **Product Name:** Cutting Oil
- **Synonyms:** Machining Oil, Metalworking Fluid, Coolant Oil
- **Supplier:** Basekim – UAE / Turkey
- **Intended Use:** Lubrication and cooling during metal cutting and machining operations.

---

### Section 2: Hazard Identification

**Classification (GHS):**

- *Skin Irritation (Category 2)*
- *Eye Irritation (Category 2B)*
- *Aquatic Chronic Toxicity (Category 3)*

**Signal Word:** WARNING

**Hazard Statements:**

- Causes skin irritation on prolonged contact.
- May cause mild eye irritation.
- Harmful to aquatic life with long-lasting effects.
- Inhalation of mist may cause respiratory irritation.

**Precautionary Statements:**



- Avoid breathing mist or vapor.
- Wear protective gloves, eye protection, and protective clothing.
- Use only in well-ventilated areas.
- Prevent release to the environment.

**Pictograms:**

☠ (Corrosion) 🌱 (Environment) ⚠ (Warning)

---

**Section 3: Composition / Information on Ingredients**

Component	CAS Number	Concentration (%)
Base Oil (SN150–SN500)	64742-54-7	60 – 90%
Sulfurized EP Additives	61789-86-4	5 – 15%
Chlorinated Paraffins	63449-39-8	2 – 8%
Corrosion Inhibitors	Proprietary	1 – 5%
Biocide (e.g., CMIT/MIT)	55965-84-9	<0.1%
Antifoam & Emulsifiers	Proprietary	0.5 – 3%

**Note:** Concentrations may vary depending on grade and type (straight oil or soluble oil).

---

**Section 4: First Aid Measures****Eye Contact:**

- Rinse cautiously with water for 15 minutes.
- Remove contact lenses if present and easy to do.
- Seek medical attention if irritation persists.

**Skin Contact:**

- Remove contaminated clothing and wash skin with soap and water.
- If irritation develops, seek medical attention.

**Inhalation:**

- Move the exposed person to fresh air.
- If symptoms persist, seek medical attention.

**Ingestion:**

- Do NOT induce vomiting.
- Rinse mouth with water and seek immediate medical care.

---

**Section 5: Firefighting Measures**

- **Flash Point:** >180°C (Closed Cup)
- **Flammable Limits:** Not highly flammable but can burn.
- **Suitable Extinguishing Media:** Foam, CO<sub>2</sub>, dry chemical.
- **Unsuitable Media:** Direct water stream (may spread fire).
- **Fire Hazards:** Burning may produce toxic fumes including SO<sub>x</sub>, CO, CO<sub>2</sub>, and HCl.
- **PPE for Firefighters:** Self-contained breathing apparatus and full protective gear.

---

**Section 6: Accidental Release Measures****Personal Precautions:**

- Wear protective gloves and goggles.
- Avoid breathing mist.

**Environmental Precautions:**

- Prevent oil from entering drains, waterways, or soil.
- Cutting oil may be harmful to aquatic life.

**Cleanup Methods:**

- Contain spill with sand, soil, or absorbent material.
- Collect and place into sealed containers for disposal.

---

**Section 7: Handling and Storage****Handling:**

- Use in well-ventilated areas.



- Avoid prolonged skin contact.
- Do not mix with strong oxidizing agents.

#### Storage:

- Store between 5°C – 40°C.
- Keep containers tightly closed and away from direct sunlight.
- Store separately from oxidizers and food products.

### Section 8: Exposure Controls / Personal Protection

#### Hazardous Component Exposure Limit (TWA)

Mineral Oil Mist	5 mg/m <sup>3</sup> (OSHA PEL)
Chlorinated Additives	1 ppm (recommended)

#### Personal Protective Equipment:

- **Respiratory:** Use mask if mist levels exceed exposure limits.
- **Eyes:** Safety goggles or face shield.
- **Skin:** Protective gloves and coveralls.
- **Hygiene:** Wash thoroughly after handling.

### Section 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Amber to brown liquid
Odor	Mild petroleum / sulfur
Density @ 15°C (kg/L)	0.870 – 0.890
Viscosity @ 40°C (cSt)	32 – 100 (depending on grade)
Flash Point (°C)	≥180
Pour Point (°C)	-6
Water Solubility	Insoluble
pH (soluble type)	8.5 – 9.5

### Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Reactivity:** Non-reactive except with strong oxidizers.





- **Hazardous Decomposition:** CO, CO<sub>2</sub>, SO<sub>2</sub>, and HCl when burning.
- **Conditions to Avoid:** Extreme heat, open flame, contamination with water.

---

## Section 11: Toxicological Information

- **Acute Toxicity:** Low oral and dermal toxicity.
- **Skin Contact:** Prolonged contact may cause irritation or dermatitis.
- **Eye Contact:** May cause mild to moderate irritation.
- **Inhalation:** Mist may cause respiratory tract irritation.
- **Chronic Effects:** Prolonged exposure to chlorinated additives may affect liver and kidneys.

---

## Section 12: Ecological Information

- **Aquatic Toxicity:** Harmful to aquatic life with long-term effects.
- **Persistence:** Not readily biodegradable.
- **Bioaccumulation:** Moderate potential due to mineral oil and chlorinated compounds.

---

## Section 13: Disposal Considerations

- Dispose of as hazardous industrial waste.
- Do not pour into drains or soil.
- Follow local environmental regulations for cutting oil disposal.

---

## Section 14: Transport Information

Parameter	Information
UN Number	Not classified
Proper Shipping Name	Cutting Oil
Hazard Class	Non-hazardous liquid
Packing Group	None
Marine Pollutant	Yes (due to additives)



## Section 15: Regulatory Information

- Complies with OSHA, REACH, and GHS labeling guidelines.
- Some additives may require special reporting depending on region.

---

## Section 16: Other Information

- **Revision Date:** September 2025
  - **Prepared By:** Basekim Technical Team
  - **Disclaimer:** This MSDS is provided for safety guidance and compliance. It does not replace proper training or regulatory requirements.
-