

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TKO₂TM Industrial Lubricant

FINDETT CORPORATION, 8 Governor Drive, St. Charles, MO 63301
636-723-0240

Product Description: Brown colored liquid with slightly sweet odor
Chemical Name: Synthetic Hydrocarbon/Proprietary Lubricant mixture

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE EXPOSURE, OR ACCIDENT
Call CHEMTREC – Day or Night – 1-800-424-9300. Toll free in the continental
U.S., Hawaii, Puerto Rico, Canada, Alaska, or Virgin Islands. For calls originating
elsewhere: 703-527-3887 (collect calls accepted).

2. COMPOSITION/INFORMATION ON INGREDIENTS

Note: TKO₂TM Industrial Lubricant is a proprietary blend manufactured by Findett Corporation. All components appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under authority of the Toxic Substances Control Act (TSCA).

This product is hazardous as defined in CFR 1910.1200.

OSHA HAZARD

FLAMMABLE LIQUID

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE CONTACT:

Slightly irritating but does not injure eye tissue.

SKIN CONTACT:

Frequent or prolonged contact may irritate and cause dermatitis.

Low order of toxicity.

Skin contact may aggravate an existing dermatitis condition.

INHALATION:

High vapor/aerosol concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

INGESTION:

Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death. Minimal toxicity.

4. FIRST AID MEASURES

EYE CONTACT:

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:

Flush with large amounts of water; use soap if available.

Remove grossly contaminated clothing, including shoes, and launder before reuse.

INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION:

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT: 18°F. Method: TCC NOTE: Typical

FLAMMABLE LIMITS: LEL: 1.5 UEL: 11.6 @ 77°F. NOTE:
Approximate

AUTOIGNITION TEMPERATURE: 750°F. NOTE: Approximate

GENERAL HAZARD:

Extremely flammable, material will readily ignite at ambient temperatures.

Static Discharge, material can accumulate static charges that can cause an incendiary electrical discharge.

“Empty” containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC

ELECTRICITY OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

FIRE FIGHTING

Use water spray to cool fire exposed surfaces and t protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors.

Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

Avoid spraying water directly into storage containers due to danger of boil over.

This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

No unusual.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills, implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 REGULATORY INFORMATION) notify the National Response Center. Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion-proof or hand pump) or with a suitable absorbent. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazards and request all to stay clear. Remove from surface by skimming or with suitable adsorbents.

If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

7. HANDLING AND STORAGE

ELECTROSTATIC ACCUMULATION HAZARD:

Yes, use proper grounding procedure.

Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents" (American Petroleum Institute, 1220 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101)

STORAGE TEMPERATURE, °F: Ambient

STORAGE/TRANSPORT PRESSURE, mm. Hg.: Atmospheric

LOADING/UNLOADING TEMPERATURE, °F: Ambient

LOADING/UNLOADING VISCOSITY, cSt: Approximately 0.9

STORAGE AND HANDLING:

Keep container closed. Handle and open containers with care. Store in a cool, well-ventilated place away from incompatible materials. Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight. Material will accumulate static charges, which may cause an electrical spark (ignition source). Use proper grounding procedures.

DO NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated.

PERSONAL PROTECTION

For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves. Where contact may occur, wear safety glasses with side shields.

Where concentrations in air may exceed the limits given in this section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

RECOMMENDED OCCUPATIONAL EXPOSURE LIMIT

400 ppm total hydrocarbon

9. PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY:	0.70 @ 60°F
VAPOR PRESSURE:	63 mm. Hg. @ 68°F (approximate)
SOLUBILITY IN WATER:	<0.01%w @ 77°F
VISCOSITY OF LIQUID:	0.7 cSt @ 77°F
SPECIFIC GRAVITY (VAPOR):	3.90 calculated @ 1 atm (air =1)
FREEZING/MELTING POINT:	<-76°F
EVAPORATION RATE:	5.6 (n-butyl acetate = 1)
BOILING POINT:	205-225°F

10. STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Not Applicable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION: Not Applicable
MATERIALS TO AVOID INCOMPATIBILITY: Strong Oxidizing Agents
HAZARDOUS DECOMPOSITION PRODUCTS: None

11. TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

12. ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

13. DISPOSAL CONSIDERATIONS

This material when discarded is a hazardous waste as defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dispose of in accordance with all federal, state and local environmental regulations. Recommended method of disposal is by high temperature incineration in a RCRA approved TSDF. If there are any questions regarding the disposal of this material, please consult the Environmental, Health & Safety Department of Findett Corporation at 636-946-2355.

14. TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: Consumer Commodity, 9, ID8000,

Packing Instruction 910

15. REGULATORY INFORMATION

CLEAN WATER ACT/OIL POLLUTION ACT: This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.

CERCLA: The reportable quantity for this substance is 1000 lbs. In the event of an accidental spill of 1000 lbs. or more, contact the National Response Center at 800-424-8802.

SARA TITLE III: Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: FIRE.

This information may be subject to the provisions of the Community Right-To-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.

16. OTHER INFORMATION

HAZARD RATING SYSTEMS: This is for people trained in:

National Paint & coatings Association's (MPCA) Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA 704):

	<u>NPCA-HMIS</u>	<u>NFPA 704</u>	<u>KEY</u>
HEALTH	1	1	4 = Severe
FLAMMABILITY	3	3	3 = Serious
REACTIVITY	0	0	2 = Moderate
			1 = Slight
			0 = Minimal

NOTICE: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Findett Corporation makes no representations as to the completeness or accuracy thereof. Information is supplied upon the conditions that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will Findett Corporation be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.
