



TKO Test Kit

TKO

SDS Revision Date (mm/dd/yyyy): 04/20/2015

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **TKO Test Kit**

Product Code(s) : TKO (P/N 475365)

Recommended use of the chemical and restrictions on use

: Oil refrigeration test kit

Chemical family : Mixture.

Name, address, and telephone number
of the supplier:

Parker Hannifin Corporation - Sportan Division

206 Lange Drive
Washington, MO, U.S.A.
63090

Supplier's Telephone # : (636-239-1111)

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887
(Outside U.S.).

Name, address, and telephone number of
the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:

- Class B2 (Flammable Liquids)
- Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material)
- Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification

- Flammable Liquid - Category 2
- Eye Damage/Irritation - Category 2A
- Skin Irritation - Category 2
- Reproductive Toxicity - Category 2
- Specific Target Organ Toxicity, Single Exposure - Category 3 (cns)
- Specific Target Organ Toxicity, Repeated Exposure - Category 2
- Aspiration Toxicity - Category 1

Label elements

The following label information is applicable only to the United States according to OSHA Regulations (29 CFR 1910.1200) (Hazcom 2012):

Signal Word

DANGER!

Hazard statement(s)

- Highly flammable liquid and vapor.
- Causes skin irritation.
- Causes serious eye irritation.
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs through prolonged or repeated exposure.
- May be fatal if swallowed and enters airways.



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Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Avoid breathing mist, vapors or spray.
Use only in well-ventilated areas.
Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs, get medical advice/attention.
Take off contaminated clothing and wash before re-use.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
In case of fire, use water fog, dry chemical, CO2 or 'alcohol' foam.

Store in a well-ventilated place. Keep cool.
Keep container tightly closed.
Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.



The following label information is applicable only to Canada according to the Canadian Controlled Products Regulations (CPR/WHMIS):

DANGER!

Highly flammable liquid and vapour Harmful if inhaled. May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May be fatal if swallowed and enters airways. Aspiration into the lungs may cause chemical pneumonitis. Causes skin and eye irritation. Contains material which may cause reproductive harm.

Wear protective gloves/clothing and eye/face protection. Use in a well-ventilated area. Keep away from flames and hot surfaces. - No smoking. Bond and ground transfer containers and equipment to avoid static accumulation. Wash thoroughly after handling.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Call a physician if irritation develops or persists. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation develops or persists. If swallowed, call a poison control centre or doctor immediately.



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Other hazards

Other hazards which do not result in classification:

Ingestion can cause gastrointestinal irritation, nausea, and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration
Toluene	108-88-3	30.0 - 60.0
Ethyl alcohol	64-17-5	30.0 - 60.0

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion** : Seek immediate medical attention/advice. Do not induce vomiting. Never give anything by mouth to an unconscious person.
- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Eye contact** : Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical attention/advice.

Most important symptoms and effects, both acute and delayed

- : May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause skin irritation. Symptoms may include redness, itching and swelling. May cause severe eye irritation. Symptoms will include pain, redness and tearing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause damage to the central nervous system through prolonged or repeated exposure if inhaled. Suspected of damaging the unborn child.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically. Aspiration hazard This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Highly flammable liquid and vapor. Vapour may cause flash fire/Vapours are heavier than air and may spread along floors. Vapours may ignite explosively.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquid - Category 2



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Explosion Data: Sensitivity to Mechanical Impact / Static Discharge:

: May be sensitive to static discharge. Not expected to be sensitive to mechanical impact.

Hazardous combustion products

: Carbon oxides; Aldehydes; Hydrocarbons; irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

: Remove all sources of ignition. Ventilate area of release. Dike for water control. Stop spill or leak at source if safely possible. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): Toluene (1000 lbs / 454 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Ground/Bond container and receiving equipment. Use only non-sparking tools. Keep away from acids and incompatibles. Take precautionary measures against static discharges. Always replace cap after use. Keep container tightly closed. Wash thoroughly after handling.

Conditions for safe storage

: Store locked up. Store in a cool, dry, well-ventilated area. Keep container tightly closed. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials

: Carbon oxides; Aldehydes; Hydrocarbons; irritating fumes and smoke . . .

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION





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<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Toluene	20 ppm	N/Av	200 ppm	300 ppm (Ceiling)
Ethyl alcohol	N/Av	1000 ppm	1000 ppm ; 1900 mg/m ³	N/Av

Exposure controls

Ventilation and engineering measures

: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

: If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection

: Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.

Eye / face protection

: Chemical splash goggles are recommended. A full face shield may also be necessary.

Other protective equipment

: Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Wash hands thoroughly after using this product, and before eating, drinking or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear, red liquid.

Odour : Solvent odour.

Odour threshold : N/Av

pH : N/Av

Melting/Freezing point : -30°C (-22°F)

Initial boiling point and boiling range

: 78°C (172°F)

Flash point : 4.4°C (40°F)

Flashpoint (Method) : Seta closed cup

Evaporation rate (BuAe = 1) : > 1

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : 19 mm Hg

Vapour density : 1.6

Relative density / Specific gravity

: 0.86

Solubility in water : Partially soluble.



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Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : N/Av
Auto-ignition temperature : N/Av
Decomposition temperature : N/Av
Viscosity : < 2 cps
Volatiles (% by weight) : >99%
Volatile organic Compounds (VOC's) : 860 g/L
Absolute pressure of container : N/Av
Flame projection length : N/Av
Other physical/chemical comments : None.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability : Stable under the recommended storage and handling conditions prescribed.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid : Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas.
Incompatible materials : Carbon oxides;Aldehydes;Hydrocarbons;irritating fumes and smoke . . .
Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption : NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Sign and symptoms ingestion

: May cause gastrointestinal irritation. May cause nausea, vomiting, headache and other central nervous system effects. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Sign and symptoms skin

: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200 (Hazcom 2012). Classification:Skin Irritation - Category 2 Causes skin irritation.



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- Sign and symptoms eyes** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).
 Classification: Eye Damage/Irritation - Category 2A Causes serious eye irritation.
- Potential Chronic Health Effects** : Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP. Note that this product contains ethanol, a confirmed animal carcinogen (A3) by the ACGIH and human carcinogen (Group 1) by the IARC; however, this is only applicable when the chemical is present in alcoholic beverages.
- Reproductive effects & Teratogenicity** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification: Reproductive Toxicity - Category 2
 Suspected of damaging fertility or the unborn child if inhaled.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Specific target organ effects** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).
 Classification:
 Specific Target Organ Toxicity, Single Exposure - Category 3 (cns)
 Specific Target Organ Toxicity, Repeated Exposure - Category 2
 May cause drowsiness or dizziness.
 May cause damage to organs through prolonged or repeated exposure.
- Irritancy** : Severe eye irritant. May cause respiratory irritation. Skin irritation
- Medical conditions aggravated by overexposure** : Pre-existing skin, eye, respiratory and central nervous system disorders.
- Synergistic materials** : None known or reported by the manufacturer.
- Toxicological data** : See below for individual ingredient acute toxicity data.

Chemical name	LC50(4hr) Inh. rat	LD50	
		(Oral, rat)	(Rabbit, dermal)
Toluene	7585 ppm (28.1 mg/L)	5580 mg/kg	12 125 mg/kg
Ethyl alcohol	> 32 380 ppm	7080 mg/kg	> 15 800 mg/kg

Other important toxicological hazards
 : None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Harmful to aquatic life with long lasting effects. Do not allow material to contaminate ground water system. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor



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Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor

Persistence and degradability

: No data is available on the product itself. This product contains: Toluene; Ethanol.
Toluene is considered to be readily biodegradable.
Ethanol is considered to be readily biodegradable.

Bioaccumulation potential

: No data is available on the product itself. This product contains: Toluene.
The log Kow value for Toluene is 2.65, and its Bioconcentration Factor (BCF) is 90 (OECD).

Mobility in soil

: No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1993	Flammable Liquids, n.o.s. (Toluene; Ethanol)	3	II	
49CFR/DOT Additional information	May be shipped as a Limited Quantity according to packaging section 173.150. Refer to 49 CFR Section 173.150.				
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Toluene; Ethanol)	3	II	
TDG Additional information	Within Canada, the Limited Quantity Exemption may apply for containers which hold specific quantities of the product. Under the TDGR, refer to section 1.17 for Limited Quantity Exemption information, if shipping under this exemption.				
ICAO/IATA	UN1993	Flammable liquid, n.o.s. (Toluene; Ethanol)	3	II	
ICAO/IATA Additional information	Product may be reclassified for air transportation if packaged in accordance with IATA regulations (i.e. ID 8000, Consumer Commodity, Class 8).				

Special precautions for user

:

Environmental hazards

: See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

:



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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity (RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 356:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Toluene	108-88-3	Yes	1000 lb/ 454 kg	None.	Yes	1%
Ethyl alcohol	64-17-5	Yes	N/Ap	None.	No	NS

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Toluene	108-88-3	No	Developmental	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	developmental toxic	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Toluene	108-88-3	203-625-9	Present	Present	(3)-2	KE-33936	Present	HSR001227
Ethyl alcohol	64-17-5	200-578-6	Present	Present	(2)-202	KE-13217	Present	HSR001144

SECTION 16. OTHER INFORMATION



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- Legend**
- : ACGIH: American Conference of Governmental Industrial Hygienists
 - CA: California
 - CAS: Chemical Abstract Services
 - CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 - CFR: Code of Federal Regulations
 - CNS: Central Nervous System
 - DOT: Department of Transportation
 - HMIS: Hazardous Materials Identification System
 - HSDB: Hazardous Substances Data Bank
 - IARC: International Agency for Research on Cancer
 - Inh: Inhalation
 - LC: Lethal Concentration
 - LD: Lethal Dose
 - MA: Massachusetts
 - MN: Minnesota
 - MSHA: Mine Safety and Health Administration
 - N/Ap: Not Applicable
 - N/Av: Not Available
 - NFPA: National Fire Protection Association
 - NJ: New Jersey
 - NIOSH: National Institute of Occupational Safety and Health
 - NTP: National Toxicology Program
 - OSHA: Occupational Safety and Health Administration
 - PA: Pennsylvania
 - PEL: Permissible exposure limit
 - RCRA: Resource Conservation and Recovery Act
 - RI: Rhode Island
 - RTECS: Registry of Toxic Effects of Chemical Substances
 - SARA: Superfund Amendments and Reauthorization Act
 - STEL: Short Term Exposure Limit
 - TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 - TLV: Threshold Limit Values
 - TWA: Time Weighted Average
 - WHMIS: Workplace Hazardous Materials Identification System

- References**
- : Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
 - European Chemicals Agency, Classification Legislation, 2015
 - OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015
 - Material Safety Data Sheet from manufacturer

Preparation Date (mm/dd/yyyy)

: 08/27/2012

Reviewed Date SDS (dd/mm/yyyy)

: 20/04/2015

Revision No.

: 2

Revision Information

: All (format change)

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

HMIS Rating

: * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
 Health: *2 Flammability: 3 Reactivity: 0

NFPA Rating

: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
 Health: 2 Flammability: 3 Instability: 0 Special Hazards: None.



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<p>Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

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