



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 1 of 12

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Retro Fit Test Kit**

Product Code(s) : RTK (P/N 475363)

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 - Sporlan 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 D1B (Materials Causing Immediate and Serious Toxic Effects, Toxic Material)
- 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:
- Acute Toxicity, oral - Category 4
- Acute Toxicity, dermal - Category 3
- Acute Toxicity, inhalation - Category 3 (vapor)
- Eye Damage/Irritation - Category 2A
- Reproductive Toxicity - Category 2
- Specific Target Organ Toxicity, Single Exposure - Category 1
- Specific Target Organ Toxicity, Single Exposure - Category 3 (cns)
- Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)

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!



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 2 of 12

SAFETY DATA SHEET

Hazard statement(s)

Highly flammable liquid and vapor.
Harmful if swallowed.
Toxic if inhaled.
Toxic in contact with skin.
Causes serious eye irritation.
May cause respiratory irritation.
Suspected of damaging fertility or the unborn child.
Causes damage to organs.
May cause drowsiness or dizziness.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. - No smoking.
Keep container tightly closed.
Take precautionary measures against static discharge.
Use only non-sparking tools.
Ground/Bond container and receiving equipment.
Wash thoroughly after handling.
Do not breathe vapours or spray mist.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Wear protective gloves/clothing and eye/face protection.

If exposed or concerned: Call a poison center or doctor/physician.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Call a POISON CENTER or doctor/physician if you feel unwell.
Wash contaminated clothing before reuse.
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: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam for extinction.

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):



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 3 of 12

SAFETY DATA SHEET

DANGER!

May cause central nervous system depression. Highly flammable liquid and vapour. POISON! Harmful or fatal if inhaled or absorbed through the skin. Harmful or fatal if swallowed. May cause blindness. Aspiration into the lungs may cause chemical pneumonitis. Causes skin and eye irritation. Contains material which may be a teratogen.

Use in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Do not breathe vapours or spray mist. Keep away from heat, sparks and open flame. - No smoking. Use proper bonding and grounding techniques when transferring liquid. Keep away from incompatibles. Wash thoroughly after handling.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician or poison control centre immediately. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control centre immediately. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control centre immediately.



Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>CAS #</u>	<u>Concentration</u>
Methanol	67-56-1	60.0 - 100.0
Acetone	67-64-1	7.0 - 13.0

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. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- 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. Seek immediate medical attention/advice.
- Eye contact* : Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical attention/advice.



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 4 of 12

SAFETY DATA SHEET

Most important symptoms and effects, both acute and delayed

- : Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness. May cause irritation to the nose, throat and upper respiratory tract. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May result in unconsciousness and possibly death. May cause skin irritation. Symptoms include redness, swelling and sloughing of skin cells (flaking). May be absorbed through the skin, producing symptoms similar to inhalation. May cause severe eye irritation. Methanol is known to cause appreciable eye irritation, and possible blindness. Symptoms may include a burning sensation, pain, watering, and/or changes in vision (blurred vision). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be absorbed through the skin, producing symptoms similar to inhalation. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Treat same as methanol poisoning. Symptoms may be delayed.

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. Vapours may ignite explosively. Static discharge, impact, friction, and heat may ignite exposed chemical material. Vapour can travel considerable distance and flashback to a source of ignition. Vapours are heavier than air and may spread along floors. Closed containers may build up pressure when exposed to heat and flame.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquid - Category 2

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; formaldehyde; 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.



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 5 of 12

SAFETY DATA SHEET

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. Stop the spill at source if it is safe to do so. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. 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). Notify the appropriate authorities as required.

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): Methanol (5000 lbs / 2270 kg); Acetone (5000 lbs / 2270 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 only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Do not breathe mist/vapors/spray. Keep away from flames and hot surfaces. - No smoking. Take precautionary measures against static discharges. Ground/Bond container and receiving equipment. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Use proper bonding and grounding techniques when transferring liquid. Keep away from acids and incompatibles. Always replace cap after use. 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

: Acids; Strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Methanol	200 ppm (skin)	250 ppm (skin)	200 ppm	N/Av
Acetone	500 ppm	750 ppm	1000 ppm (2400 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.



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 6 of 12

SAFETY DATA SHEET

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 green liquid.

Odour : Solvent odour.

Odour threshold : N/Av

pH : N/Av

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

Initial boiling point and boiling range

: 57°C (135°F)

Flash point : -17°C (1.4°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 : 140 mm Hg

Vapour density : 1.1

Relative density / Specific gravity

: 0.79

Solubility in water : miscible

Other solubility(ies) : N/Av

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)

: 711 g/L

Absolute pressure of container

: N/Av

Flame projection length : N/Av

Other physical/chemical comments

: None reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions

: No dangerous reaction known under conditions of normal use.



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 7 of 12

SAFETY DATA SHEET

- Conditions to avoid** : Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas.
- Incompatible materials** : Acids; Strong oxidizing agents.
- 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**
: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness. May cause irritation to the nose, throat and upper respiratory tract. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May result in unconsciousness and possibly death.

Sign and symptoms ingestion

- : May cause gastrointestinal irritation. May cause nausea, vomiting, headache and other central nervous system effects. May be absorbed and cause symptoms similar to those for inhalation. 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.

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. May cause central nervous system depression. Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness.

Mutagenicity

- : Not expected to be mutagenic in humans.

Carcinogenicity

- : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

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.

Senitization to material

- : Not expected to be a skin or respiratory sensitizer.



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 8 of 12

SAFETY DATA SHEET

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, Single Exposure -Category 3 (respiratory)
 Specific Target Organ Toxicity, Single Exposure - Category 1
 May cause drowsiness or dizziness.
 May cause respiratory irritation.
 Causes damage to organs.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Irritancy : Moderate skin irritant. Severe eye irritant. May cause respiratory 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

: There is no data available for this product.
 The calculated ATE values for this mixture are:
 ATE oral =333.00 mg/kg
 ATE inhalation (vapours) = 4.55 mg/L
 ATE dermal = 436.68 mg/kg

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Methanol	> 5000 ppm/6H (4.1 mg/L/4H (vapour))	5628 mg/kg (rat) The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey) 15 800 mg/kg (rabbit)
Acetone	30 000 ppm (71 mg/L) (vapour)	5800 mg/kg	> 15 800 mg/kg

Other important toxicological hazards

: CNS depression may result from extreme exposures. Inhalation of methanol vapours may cause substantial visual effects, including irritation, blurred vision, and blindness.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : No data is available on the product itself. Do not release, unmonitored, into the environment.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	N/Av	None.
Acetone	67-64-1	6210 mg/L (Fathead minnow)	N/Av	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	N/Av	None.
Acetone	67-64-1	15 800 mg/L (Daphnia magna)	1660 mg/L	None.



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 9 of 12

SAFETY DATA SHEET

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	N/Av	None.
Acetone	67-64-1	N/Av	7000 mg/L (Green algae)	None.

Persistence and degradability

- : No data is available on the product itself. This product contains: Methanol; Acetone. Methanol is readily biodegradable. Acetone is considered to be readily biodegradable.

Bioaccumulation potential

- : No data is available on the product itself. This product contains: Methanol; Acetone. The log Kow value for Methanol is -0.77, and its Bioconcentration factor (BCF) is <10. The log Kow value for Acetone is - 0.24, and its bioconcentration factor is 3, suggesting Acetone has a low potential for bioaccumulation.

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. Contact your local, state, provincial or federal environmental agency for specific rules.

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. (Methanol; Acetone)	ORM-D	II	
49CFR/DOT Additional information	Domestic US ground shipments may be shipped as Consumer Commodity, ORM-D. Refer to 49 CFR Section 173.150.				
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Methanol; Acetone)	LQ ground	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	ID8000	Consumer Commodity	9	none	



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 10 of 12

SAFETY DATA SHEET

ICAO/IATA Additional information	Inner container size may not exceed 500 mL. Gross weight per package cannot exceed 30 kg. Follow Packing Instruction Y963.
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Special precautions for user : Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

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

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Methanol	67-56-1	Yes	5000 lbs / 2270 kg	None.	Yes	1%
Acetone	67-64-1	Yes	5000 lb/ 2270 kg	None.	No	N/Ap

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Methanol.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Methanol	67-56-1	No	Developmental	Yes	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	No	N/Ap	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.



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 11 of 12

SAFETY DATA SHEET

International Information:

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

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Methanol	67-56-1	200-659-6	Present	Present	(2)-201	KE-23193	Present	HSR001186
Acetone	67-64-1	200-662-2	Present	Present	(2)-542	KE-29367	Present	HSR001070

SECTION 16. OTHER INFORMATION

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
 - Material Safety Data Sheet from manufacturer
 - OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015

Preparation Date (mm/dd/yyyy)

: 08/28/2012

Reviewed Date SDS (dd/mm/yyyy)

: 05/05/2015



Retro Fit Test Kit

RTK

SDS Revision Date (mm/dd/yyyy): 05/05/2015

Page 12 of 12

SAFETY DATA SHEET

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.*

<p><u>Prepared for:</u> Parker Hannifin Corporation - Sporlan Division 206 Lange Drive, Washington, MO, U.S.A. 63090 Telephone: (636) 239-1111 www.parker.com Direct all enquiries to: Parker Hannifin Corporation - Sporlan Division.</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

DISCLAIMER

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