



TA-1 Acid Test Kit
MSDS Revision Date (mm/dd/yyyy): 01/08/2013

P/N 780041; 780042; 780044
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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : **TA-1 Acid Test Kit**
Product Code(s) : P/N 780041; 780042; 780044
Product Use : Oil refrigeration test kit.
Chemical Family : Mixture. TA-1 consists of three bottles; two of neutralizer solution; and one of indicator solution. TA-1 is a one-time disposable kit.

Supplier's name and address:

Manufacturer's name and address:

Parker Hannifin Corporation - Sporlan Division

Refer to Supplier

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

Information Telephone # : (636) 239-1111
24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

SECTION 2 - HAZARDS IDENTIFICATION

Classification : 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:
Indicator Solution:
Class B2 (Flammable Liquids);
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material) ;
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).
Neutralizer Solution:
Class B2 (Flammable Liquids);
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;
Acute Health Hazard;
Chronic Health Hazard.

Emergency Overview : *Indicator Solution:*
Clear, red liquid. Solvent odour.
WARNING! Flammable liquid and vapor. Vapours may cause flash fire. May be harmful if inhaled or swallowed. May cause respiratory irritation. May cause central nervous system depression. May be harmful or fatal if swallowed. Aspiration hazard. Can enter the lungs and cause damage. Causes skin and eye irritation. Prolonged overexposure may cause liver and kidney effects. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.
Neutralizer Solution:
Clear, colourless liquid. Alcohol odour.
WARNING! Flammable liquid and vapour. Vapours may cause flash fire. May be harmful if inhaled. May cause respiratory irritation. May cause central nervous system depression. May be harmful or fatal if swallowed. May be an aspiration hazard. Can enter the lungs and cause damage. Causes eye irritation. May cause mild skin irritation.



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POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : *Indicator Solution*: 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. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Neutralizer Solution: 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.

Skin : *Indicator Solution*: May cause moderate skin irritation. Symptoms may include redness, itching and swelling. Can be absorbed through skin.

Neutralizer Solution: May cause mild skin irritation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.

Eyes : May cause severe eye irritation. Symptoms will include pain, redness and tearing.

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

Effects of long-term (chronic) exposure

: *Indicator Solution*: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Prolonged overexposure may cause liver and kidney effects.

Neutralizer Solution: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt.%</u>
TA-1 Indicator Solution contains the following chemicals:		
Xylene	1330-20-7	50.00 - 70.00
Ethyl alcohol (Ethanol)	64-17-5	30.00 - 50.00
TA-1 Mineral or Alkyl benzene oil Neutralizer Solution contains the following chemicals:		
Ethyl alcohol (Ethanol)	64-17-5	90.00 - 100.00
sodium hydroxide	1310-73-2	< 0.10%
TA-1 POE Oil Neutralizer Solution contains the following chemicals:		
Ethyl alcohol (Ethanol)	64-17-5	90.00 - 100.00
Potassium hydroxide	1310-58-3	< 0.10%

SECTION 4 - FIRST AID MEASURES

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. Get medical attention.



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- Skin contact** : For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. Wash contaminated clothing before reuse.
- Eye contact** : Immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention/advice.
- 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.
- Notes For Physician** : Treat symptomatically. This product is a CNS depressant.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Flammable liquid and vapor. Will be ignited by heat, sparks, flame, or other ignition sources. Vapours are heavier than air and collect in confined and low-lying areas. Vapour can travel considerable distance and flashback to a source of ignition. Product may float, and be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Flammable Liquid Class 1B.

Oxidizing properties

- : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

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

Suitable extinguishing media

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

Special fire-fighting procedures/equipment

- : 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.

Hazardous combustion products

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

NFPA Rating

- | | | | | |
|---|------------|--------------|-------------|------------|
| 0 - Minimal | 1 - Slight | 2 - Moderate | 3 - Serious | 4 - Severe |
| : <i>Health:</i> 2 <i>Flammability:</i> 3 <i>Instability:</i> 0 <i>Special Hazards:</i> None. | | | | |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions

- : 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.

Spill response/cleanup

- : Ventilate area of release. Remove all sources of ignition. Stop the spill at source if it is safe to do so. 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.

Prohibited materials

- : Do not use combustible materials, such as sawdust, as absorbent material.

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): Xylene (100 lbs / 45.4 kg)



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SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapour or mist. 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.
- Storage requirements** : Store in a cool, dry, well-ventilated area. 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; Alkali metals.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

<u>Exposure Limits</u>				
<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
TA-1 Indicator Solution contains the following chemicals:				
Xylene	100 ppm	150 ppm	100 ppm	N/Av
Ethyl alcohol (Ethanol)	N/Av	1000 ppm	1000 ppm	N/Av
TA-1 Mineral or Alkyl benzene oil Neutralizer Solution contains the following chemicals:				
Ethyl alcohol (Ethanol)	N/Av	1000 ppm	1000 ppm	N/Av
sodium hydroxide	2 mg/m ³ (Ceiling)	N/Av	2 mg/m ³	N/Av
TA-1 POE Oil Neutralizer Solution contains the following chemicals:				
Ethyl alcohol (Ethanol)	N/Av	1000 ppm	1000 ppm	N/Av
Potassium hydroxide	2 mg/m ³ (Ceiling)	N/Av	2 mg/m ³ (Ceiling) (final rule limit)	N/Av

- 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. Wear resistant clothing and boots.
- Eye / face protection** : Chemical splash goggles are recommended. A full face shield may also be necessary.
- Other protective equipment** : 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.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid	
Appearance	: <i>Indicator Solution</i> : Clear, red liquid. <i>Neutralizer Solution</i> : Clear, colorless liquid.	
Odour	: <i>Indicator Solution</i> : Solvent odour. <i>Neutralizer Solution</i> : Alcohol odour.	
Odour threshold	: N/Av	
pH	: <i>Indicator Solution</i> : neutral <i>Neutralizer Solution</i> : slightly alkaline	
Specific gravity	: <i>Indicator Solution</i> : 0.833 <i>Neutralizer Solution</i> : 0.8 - 0.88	
Boiling point	: > 37.8°C (100°F)	
Solubility in water	: <i>Indicator Solution</i> : slight <i>Neutralizer Solution</i> : Complete	
Flash point	: <i>Indicator Solution</i> : 13 - 25°C (55 - 77°F) <i>Neutralizer Solution</i> : 13 - 14°C (55 - 57°F)	
Vapour pressure (mmHg @ 20° C / 68° F)	: <i>Indicator Solution</i> : 19 <i>Neutralizer Solution</i> : 44	
Vapour density (Air = 1)	: > 1	Evaporation rate (n-Butyl acetate = 1) : > 1
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight) : > 99%
Melting/Freezing point	: < - 30°C (- 22°F)	Coefficient of water/oil distribution : N/Av
Flash point Method	: estimated	Auto-ignition temperature : N/Av
Lower flammable limit (% by vol.)	: N/Av	Upper flammable limit (% by vol.) : N/Av
Flame Projection Length	: N/Av	Flashback observed : N/Av
Viscosity	: < 2 cps	
Absolute pressure of container	: N/Av	

Section 10: Stability And Reactivity

Stability and reactivity	: Stable under the recommended storage and handling conditions prescribed.
Hazardous polymerization	: Hazardous polymerisation does not occur.
Conditions to avoid	: Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas.
Materials To Avoid And Incompatibility	: Acids; Oxidizing agents; Alkali metals
Hazardous decomposition products	: None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs	: Eyes, skin, respiratory system, digestive system, central nervous system. Liver. Kidneys.
Routes of exposure	: <i>Inhalation</i> : YES <i>Skin Absorption</i> : YES <i>Skin & Eyes</i> : YES <i>Ingestion</i> : YES



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Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u> <u>inh. rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
TA-1 Indicator Solution contains the following chemicals:			
Xylene	6350 ppm (27.6 mg/L)	3523 mg/kg	12,180 mg/kg
Ethyl alcohol (Ethanol)	> 32,380 ppm (61 mg/L)	7060 mg/kg	> 15,800 mg/kg
TA-1 Mineral or Alkyl benzene oil Neutralizer Solution contains the following chemicals:			
Ethyl alcohol (Ethanol)	> 32,380 ppm (61 mg/L)	7060 mg/kg	> 15,800 mg/kg
sodium hydroxide	N/Av	N/Av	N/Av
TA-1 POE Oil Neutralizer Solution contains the following chemicals:			
Ethyl alcohol (Ethanol)	> 32,380 ppm (61 mg/L)	7060 mg/kg	> 15,800 mg/kg
Potassium hydroxide	N/Av	205 mg/kg	> 1260 mg/kg

Carcinogenic status : 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 : Not expected to cause reproductive effects.

Teratogenicity : Indicator Solution: This product contains Xylene. Xylene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.
 Neutralizer Solution: Not expected to have other reproductive effects.

Mutagenicity : Not expected to be mutagenic in humans.

Epidemiology : None known or reported by the manufacturer.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Synergistic materials : None known or reported by the manufacturer.

Irritancy : Indicator Solution: Moderate skin irritant. Severe eye irritant.
 Neutralizer Solution: Severe eye irritant. Mild skin irritant.

other important hazards : CNS depression may result from extreme exposures.

Conditions aggravated by overexposure : Pre-existing skin, eye, respiratory and central nervous system disorders.



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SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : The product itself has not been tested. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. This product contains: Xylene; Ethanol; potassium hydroxide: sodium hydroxide.
- The acute toxicity of xylene is (ECOTOX):
 Toxicity to fish - LC50/96h/rainbow trout = 8.2 mg/L
 Toxicity to daphnia - EC50/48h/daphnia = 3.2 - 9.56 mg/L
 Toxicity to algae - EC50/72h/algae = 3.2 - 4.9 mg/L
- The acute toxicity of Ethanol is (IUCLID):
 Toxicity to fish - LC50/96h/Fathead minnows = 14,200 mg/L
 Toxicity to daphnia - EC50/48h/daphnia = 9268 - 14,221 mg/L
- The acute toxicity of potassium hydroxide is (IUCLID):
 Toxicity to fish - LC50/96h/Gambusia affinis = 80 mg/L
 Toxicity is primarily associated with pH.
- The acute toxicity of sodium hydroxide is (OECD SIDS):
 Toxicity to daphnia - EC50/48h/daphnia = 40.4 mg/L
 Toxicity is primarily associated with pH.
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself. This product contains: Xylene; Ethanol. Xylene is considered to be inherently biodegradable. Ethanol is considered to be readily biodegradable.
- Bioaccumulation potential** : No data is available on the product itself. This product contains: Xylene. The log Pow for Xylene is 3.12.
- 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: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	UN1993	Flammable Liquids, n.o.s. (Xylene; 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.				



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TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Xylene; 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. (Xylene; 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 9).				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Xylene (100 lbs / 45.4 kg)

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: Xylene.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Note that this product does contain ethyl alcohol, which is known to the State of California to cause developmental harm; however, this is only applicable when the chemical is present in alcoholic beverages

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: Xylene (CA, MA, MN, NJ, PA, RI); Ethanol (CA, MA, MN, NJ, PA, RI); Potassium hydroxide (CA, MA, MN, NJ, PA, RI); sodium hydroxide (CA, MA, MN, NJ, PA, RI).

International 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.

SECTION 16 - OTHER INFORMATION

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

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
 CA: California



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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
ECOTOX: U.S. EPA Ecotoxicology Database
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
IUCLID: International Uniform Chemical Information Database
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
OECD: Organisation for Economic Co-operation and Development
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

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2012.
2. International Agency for Research on Cancer Monographs, searched 2013.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2013 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012 version.
6. California Proposition 65 List - January 4, 2013 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2013.

Prepared for:

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<p>Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	
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DISCLAIMER OF LIABILITY

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Preparation Date (mm/dd/yyyy)

: 08/30/2012

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: 01/08/2013

Revision No.

: 2

Revision Information

- : (M)SDS sections updated:
2. HAZARDS IDENTIFICATION;
3. COMPOSITION/INFORMATION ON INGREDIENTS;
8. EXPOSURE CONTROLS / PERSONAL PROTECTION;
9. PHYSICAL AND CHEMICAL PROPERTIES;
11. TOXICOLOGICAL INFORMATION;
12. ECOLOGICAL INFORMATION;
15. REGULATORY INFORMATION.

END OF DOCUMENT