



Parker Hannifin Corporation - Sporlan Division
206 Lange Drive
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Thermal Block

TB2 (P/N 475322)

SDS Revision Date (mm/dd/yyyy): 02/06/2019

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Thermal Block**

Product Code(s)

: TB2 (P/N 475322)

Recommended use of the chemical and restrictions on use

: Absorbs heat generated by welding, brazing or soldering.
Restriction on use: None known

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

Translucent clear gel. Mild odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Skin Irritant - Category 2

Serious eye damage - Category 1

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Causes skin irritation.

Causes serious eye damage.



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Precautionary statement(s)

Wash hands and face thoroughly after handling.
Wear protective gloves and eye/face protection.

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs, get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Ingestion may cause irritation of the mouth, throat and stomach. When heated above 150°C in air, may release formaldehyde gas. Product evolves Acetic acid when exposed to water or humid air.

Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Methyltriacetoxysilane	Methylsilanetriyl triacetate	4253-34-3	1.0 - 5.0
Ethyltriacetoxysilane	Ethylsilanetriyl triacetate	17689-77-9	1.0 - 5.0
Possible decomposition products in case of hydrolysis are:			
acetic acid	Glacial acetic acid	64-19-7	Not known.
The following ingredient is released from the product only when heated above 150°C:			
formaldehyde	Formalin	50-00-0	Not known.

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

Note: Acetic acid and Formaldehyde are not intentionally added to this product.

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Consult a physician.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Duration of rinsing should be at least 20 minutes. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

- : Causes serious eye damage. Causes severe skin irritation. Ingestion may cause irritation of the mouth, throat and stomach.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

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SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Use water fog or fine spray, foams, carbon dioxide or dry chemical.

Unsuitable extinguishing media

- : Do not use water jet, as this may spread burning material.

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

- : Not flammable under normal conditions of use. When heated above 150°C in air, may release formaldehyde gas. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Product evolves Acetic acid when exposed to water or humid air.

Flammability classification (OSHA 29 CFR 1910.106)

- : Non-flammable.

Hazardous combustion products

- : Carbon oxides; formaldehyde; Silicon oxides; Silica; Formic acid; acetic acid; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

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. Cover any spilled material with non-combustible absorbent material, such as vermiculite or 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): None reported.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use only in well-ventilated areas. Wear protective equipment during handling. Impervious gloves must be worn when using this product. Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Protect from moisture. Keep container tightly closed. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.

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Conditions for safe storage : Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatibles. Inspect periodically for damage or leaks. Store out of direct sunlight. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Incompatible materials : Strong oxidizing agents; Strong acids; Bases; Water.

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>
Methyltriacetoxysilane	N/Av	N/Av	N/Av	N/Av
Ethyltriacetoxysilane	N/Av	N/Av	N/Av	N/Av
acetic acid	10 ppm	15 ppm	10 ppm ; 25 mg/m ³	N/Av
formaldehyde	0.3 ppm (Ceiling)	N/Av	0.75 ppm	2 ppm

Acetic acid and formaldehyde are not intentionally added to this product. The above exposure limits are provided for safety reasons.

Exposure controls

Ventilation and engineering measures

: Use only in well-ventilated areas. Provide sufficient ventilation to keep vapour concentration below the given TLV and/or PEL.

Respiratory protection : Respiratory protection is required if the concentrations exceed the TLV. Use NIOSH/MSHA approved equipment. Advice should be sought from respiratory protection specialists.

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

Eye / face protection : Chemical splash goggles must be worn when handling this material.

Other protective equipment : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Ensure that eyewash stations and safety showers are close to the workstation location.

General hygiene considerations

: Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Translucent gel.

Odour : Mild odor.

Odour threshold : N/Av

pH : N/Av

Melting/Freezing point : N/Av

Initial boiling point and boiling range

: N/Av

Flash point : >100°C (>212°F)

Flashpoint (Method) : Seta closed cup

Evaporation rate (BuAe = 1) : < 1

Flammability (solid, gas) : N/Av



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Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties

: None known.

Explosive properties

: Not explosive

Vapour pressure

: N/Av

Vapour density

: N/Av

Relative density / Specific gravity

: 1.0

Solubility in water

: May react with water.

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

: approximately 10000 cps

Volatiles (% by weight)

: N/Av

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Ap

Flame projection length

: N/Ap

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Product evolves Acetic acid when exposed to water or humid air.

Chemical stability

: Stable under the recommended storage and handling conditions prescribed. When heated above 150°C in air, may release formaldehyde gas.

Possibility of hazardous reactions

: Hazardous polymerization will not occur.

Conditions to avoid

: Direct sources of heat. Avoid moisture.

Incompatible materials

: Incompatible materials (see Section 7).

Hazardous decomposition products

: Formaldehyde gas. Refer also to hazardous combustion products, 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



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Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : May cause irritation of the nose, throat, mucous membranes, and respiratory tract. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde causes severe respiratory irritation, lung inflammation and pulmonary edema. Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Sign and symptoms ingestion

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

- : Causes severe skin irritation. Avoid contact with water, which will result in the liberation of acetic acid. Acetic acid can be severely irritating or corrosive.

Sign and symptoms eyes

- : Causes serious eye damage. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde gas causes moderate to severe eye irritation. Avoid contact with water, which will result in the liberation of acetic acid. Acetic acid can be severely irritating or corrosive.

Potential Chronic Health Effects

- : None expected, when used as intended.

Mutagenicity

- : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. This product does not meet the criteria for germ cell mutagens under OSHA regulations (29 CFR 1910.1200) (Hazcom 2012). Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause mutations to non-reproductive (somatic) cells, based on animal data.

Carcinogenicity

- : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP. This product does not meet the criteria for carcinogens under OSHA regulations (29 CFR 1910.1200) (Hazcom 2012). Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde is classified as carcinogenic by IARC (Group 1), ACGIH (Group A2) and NTP (Group 2).

Reproductive effects & Teratogenicity

- : This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Sensitization to material

- : Not expected to be a skin or respiratory sensitizer. This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause sensitisation by skin contact.

Specific target organ effects

- : This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Medical conditions aggravated by overexposure

- : Pre-existing skin, eye and respiratory disorders.

Synergistic materials

- : No information available.

Toxicological data

- : No data is available on the product itself.
The calculated ATE values for this mixture are: ATE oral = 18386 mg/kg
See below for individual ingredient acute toxicity data.



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<u>Chemical name</u>	LC ₅₀ (4hr)	LD ₅₀	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Methyltriacetoxysilane	N/Av	1062 mg/kg	N/Av
Ethyltriacetoxysilane	N/Av	1462 mg/kg	N/Av
Possible decomposition products in case of hydrolysis are:			
acetic acid	11400 mg/m ³ (11.4 mg/L) 2810 ppm (6.95 mg/L) (mouse)	3310 mg/kg	1060 mg/kg
The following ingredient is released from the product only when heated above 150°C:			
formaldehyde	287 ppm	800 mg/kg	300 mg/kg

Other important toxicological hazards

- : Avoid contact with water, which will result in the liberation of acetic acid. Acetic acid can be severely irritating or corrosive.

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC ₅₀ / 96h	NOEC / 21 day	M Factor
Methyltriacetoxysilane	4253-34-3	N/Av	N/Av	N/Av
Ethyltriacetoxysilane	17689-77-9	251 mg/L (Zebra fish)	N/Av	None.
acetic acid	64-19-7	N/Av	N/Av	N/Av
formaldehyde	50-00-0	6.7 mg/L (Striped bass)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC ₅₀ / 48h	NOEC / 21 day	M Factor
Methyltriacetoxysilane	4253-34-3	N/Av	N/Av	N/Av
Ethyltriacetoxysilane	17689-77-9	62 mg/L Water flea	N/Av	None.
acetic acid	64-19-7	65 mg/L Water flea	37.9 mg/L Water flea	N/Av
formaldehyde	50-00-0	5.8 mg/L	N/Av	None.



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<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Methyltriacetoxysilane	4253-34-3	N/Av	N/Av	N/Av
Ethyltriacetoxysilane	17689-77-9	N/Av	N/Av	N/Av
acetic acid	64-19-7	N/Av	N/Av	N/Av
formaldehyde	50-00-0	14.7 mg/L/24hr	N/Av	None.

Persistence and degradability

: The product itself has not been tested.

Bioaccumulation potential

: The product itself has not been tested.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
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Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

: None known.

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.



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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None	Not regulated.	Not regulated	none	
49CFR/DOT Additional information	None.				
TDG	None	Not regulated.	Not regulated	none	
TDG Additional information	None.				
ICAO/IATA	None	Not regulated.	Not regulated	none	
ICAO/IATA Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

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

: This information is 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
Methyltriacetoxysilane	4253-34-3	Yes	N/Ap	N/Ap	No	N/Ap
Ethyltriacetoxysilane	17689-77-9	Yes	N/Ap	N/Ap	No	N/Ap
acetic acid	64-19-7	Yes	5000 lb/ 2270 kg	N/Ap	No	N/Ap
formaldehyde	50-00-0	Yes	100 lbs / 45.4 kg	500 lb TPQ	Yes	1%

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Health hazards (Eye Damage ;Skin irritation).Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.



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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
Methyltriacetoxysilane	4253-34-3	No	N/Ap	No	No	No	No	No	No
Ethyltriacetoxysilane	17689-77-9	No	N/Ap	No	No	No	No	No	No
acetic acid	64-19-7	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
formaldehyde	50-00-0	Yes	carcinogen (gas)	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.

International Information:

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

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Methyltriacetoxysilane	4253-34-3	224-221-9	Present	Present	(9)-1939	KE-25331	Present	HSR007291
Ethyltriacetoxysilane	17689-77-9	241-677-4	Present	Present	(9)-1939	KE-14056	Present	No information available.
acetic acid	64-19-7	200-580-7	Present	Present	(2)-688	KE-00013	Present	HSR000975, HSR001580, HSR001581, HSR001582 (dilution)
formaldehyde	50-00-0	200-001-8	Present	Present	(2)-482	KE-17074	Present	HSR001584, HSR001162, HSR001518, HSR001583 (dilution)

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
ATE: Acute Toxicity Estimate
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer



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IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MSHA: Mine Safety and Health Administration
N/Av: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
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
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 2016
- 2. International Agency for Research on Cancer Monographs, searched 2017
- 3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - 2017 version.
- 6. California Proposition 65 List - 2017 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2017.

Preparation Date (mm/dd/yyyy)

: 01/28/2015

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: 06/02/2019

Revision No.

: 2

Revision Information

: (M)SDS sections updated: All

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: 3 *Flammability:* 1 *Reactivity:* 1

NFPA Rating

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



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

DISCLAIMER

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