



**SAFETY DATA SHEET**

**SECTION 1**

**MATERIAL IDENTIFICATION**

**PRODUCT NAME / DESCRIPTION: SIL-ACT® PCI-100**

**DISTRIBUTED / MANUFACTURED BY:**

Advanced Chemical Technologies  
9608 N Robinson  
Oklahoma City, OK 73114

Date: 1/7/2019 (Version 2)  
Phone: (405) 843-2585  
Emergency Phone: (800) 255-3924

**SECTION 2**

**HAZARD IDENTIFICATION**

**CLASSIFICATION:**

Flammability:	Category 2
Acute Toxicity:	Category 3
Skin Corrosion/Irritation:	Category 2
Serious Eye Damage/Eye Irritation:	Category 2.5
Respiratory Sensitizer:	Category 1
Reproductive Toxicity:	Category 1.5
TOST (Acute):	Category 1
TOST (Chronic):	Category 1
Aquatic Toxicity (Acute):	Category 3

**SIGNAL WORD:**

**DANGER!**

**HAZARD STATEMENTS:**

- Highly flammable liquid and vapor.
- Toxic if swallowed.
- Causes skin irritation.
- Causes eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties, if inhaled.
- May damage fertility or the unborn child.
- Causes damage to organs.
- Causes damage to organs through prolonged or repeated exposure.
- Harmful to aquatic life.



## PRECAUTIONARY STATEMENTS

Read label before use.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Wear flame/fire resistant/retardant clothing.  
Avoid breathing dust, fumes, gas, mist, vapors or spray.  
Use only outdoors or in a well ventilated area.  
Ground/bond container and receiving equipment.  
Wash all exposed skin thoroughly after handling.  
Avoid release into the environment.  
If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Keep only in original container.  
Keep container tightly closed.  
Keep/store away from heat, sparks, open flame, hot surfaces. – No Smoking.  
Keep/store away from clothing/combustible materials.  
Take any precaution to avoid mixing with combustibles.  
Do not get in eyes, on skin, or on clothing.  
Do not eat, drink or smoke while using this product.  
Do not spray on open flame or ignition source.  
Do not subject to grinding, shock or friction.  
In case of fire, stop leak if safe to do so.  
In case of fire, eliminate all ignition sources if safe to do so.  
In case of fire, evacuate area. Fight fire remotely due to risk of explosion.  
Take precautionary measure against static discharge.  
Use only non-sparking tools.  
Use explosion proof electrical/ventilating/lighting equipment.  
Avoid contact during pregnancy/while nursing.

### TOXICITY:

See section 11

## SECTION 3

## HEALTH HAZARDS

**Substance name:** Isobutyl trimethoxysilane  
**CAS No.:** 18395-30-7  
**Chemical nature:** Alkoxysilane

### Hazardous ingredients

<u>Chemical name</u>	<u>CAS No.</u>	<u>Concentration%</u>
Isobutyl trimethoxysilane	18395-30-7	>=90 - <=98
Methanol	67-56-1	>=2.5 - <=5
Corrosion Inhibitor	Trade Secret	>=2.5 - <=5

## SECTION 4

## FIRST AID

**Eye Contact:** In case of contact, immediately flush eyes with cool running water. Get medical attention if irritation develops and persists.  
**Skin Contact:** In case of skin contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get

medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Ingestion:** DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

SECTION 5	FIRE FIGHTING MEASURES
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<b>Fire Hazard Classification (OSHA/NFPA):</b>	3
<b>Suitable extinguishing media:</b>	Water spray Alcohol resistant foam Carbon dioxide (CO2) Dry chemical.
<b>Unsuitable extinguishing media:</b>	High volume water jet
<b>Hazardous combustion products:</b>	Carbon oxides Silicon oxides Formaldehyde
<b>Specific hazards during firefighting:</b>	Do not use a solid stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
<b>Specific extinguishing methods:</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
<b>Special protective equipment for fire-fighters:</b>	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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<b>Personal Precautions, PPE, and Emergency Procedures:</b>	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
<b>Environmental precautions:</b>	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
<b>Methods and materials for containment and cleaning up:</b>	Non sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

**SECTION 7**

**HANDLING AND STORAGE**

**Technical measures:** Ensure all equipment is electrically grounded before beginning transfer operations.  
 This material can accumulate static charge due to inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.

**Local/Total ventilation:** Restrict flow velocity in order to reduce the accumulation of static electricity.  
 Use with local exhaust ventilation.  
 Use only in an area equipped with explosion proof exhaust ventilation.

**Advice on safe handling:** Do not get on skin or clothing.  
 Do not breathe vapors or spray mist.  
 Do not swallow.  
 Avoid contact with eyes.  
 Handle in accordance with good industrial hygiene and safety practice.  
 Non-sparking. Tools should be used.  
 Keep container tightly closed.  
 Keep away from water.  
 Protect from moisture.  
 Keep away from heat and sources of ignition.  
 Take precautionary measures against static discharges.

**Conditions for safe storage:** Take care to prevent spills, waste and minimize release to the environment.  
 Keep in properly labeled containers.  
 Store locked up.  
 Keep tightly closed.  
 Keep in cool, well-ventilated place.  
 Store in accordance with the particular national regulations.  
 Keep away from heat and sources of ignition.

**Materials to avoid:** Do not store with the following product types:  
 Strong oxidizing agents  
 Organic peroxides  
 Flammable solids  
 Pyrophoric liquids  
 Pyrophoric solids  
 Self-heating substances and mixtures  
 Substances and mixtures which in contact with water emit flammable gases  
 Explosives  
 Gases

**SECTION 8**

**PERSONAL PROTECTION / EXPOSURE CONTROLS**

**Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value Type (form of exposure)	Control Parameter / Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm	NIOSH REL

			325 mg/m3	
		TWA	200 ppm 260 mg/m3	OSHA Z-1

**Hazardous components without workplace control parameters**

Ingredients	CAS-No.	Value Type (form of exposure)	Control Parameter / Permissible concentration	Basis
Isobutyl trimethoxysilane	18395-30-7			

**Occupational exposure limits of decomposition products**

Ingredients	CAS-No.	Value Type (form of exposure)	Control Parameter / Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1

**Biological occupational exposure limits**

Ingredients	CAS-No.	Control Parameter	Biological Specimen	Sampling time	Permissible concentration	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (as soon as possible after shift ends)	15 mg/l	ACCGIH BEI

**Engineering measures::** Processing may form hazardous compounds.  
 Minimize workplace exposure concentrations.  
 Use only in an area equipped with explosion proof exhaust ventilation.  
 Use with local exhaust ventilation.

**Personal Protective Equipment**

**Respiratory Protection:** General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hand Protection:**

Material Antistatic gloves  
 Material Impervious gloves  
 Material Flame retardant gloves  
 Remarks Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of the workday.

**Eye protection:** Wear the following personal protective equipment:

Skin and body protection:	Safety glasses Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.).
Hygiene measures:	Ensure that eye flushing systems and safety showers are located close to the working place. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol spray applications may require added precautions. For further information regarding use of silicones/organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry ( <a href="http://www.SEHSC.com">www.SEHSC.com</a> )

## SECTION 9

## TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/Freezing point:</b>	No data available
<b>Initial boiling point and boiling range:</b>	155.5° C
<b>Flash Point:</b>	32° C
	Method: Tag closed cup
<b>Evaporation Rate:</b>	No data available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper Explosion Limit (UEL):</b>	16%(V)
<b>Lower Explosion Limit (LEL):</b>	0.92%(V)
<b>Vapor Pressure:</b>	No data available
<b>Relative Vapor Density:</b>	No data available
<b>Relative Density:</b>	0.92
<b>Solubility(ies) - Water solubility:</b>	No data available
<b>Partition Coefficient: n-octanol/water</b>	No data available
<b>Auto ignition Temperature:</b>	267° C
<b>Decomposition Temperature:</b>	No data available
<b>Viscosity, kinematic:</b>	1 cSt (25° C)
<b>Explosive properties:</b>	Not explosive
<b>Oxidizing properties:</b>	The substance or mixture is not classified as oxidizing
<b>Molecular weight:</b>	No data available

## SECTION 10

## STABILITY AND REACTIVITY

<b>Reactivity:</b>	Not classified as a reactivity hazard
<b>Chemical stability:</b>	Stable under normal conditions
<b>Possibility of hazardous reactions:</b>	Flammable liquid and vapor. Vapors may form explosive mixture with air. Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents.

<b>Conditions to avoid:</b>	Hazardous decomposition products will be formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures. Exposure to moisture. Handling operations that can promote accumulation of static charges.
<b>Incompatible materials:</b>	Heat, flames, sparks. Oxidizing agents Water
<b>Hazardous decomposition products:</b>	
<b>Contact with water or humid air:</b>	Methanol
<b>Thermal decomposition:</b>	Formaldehyde

## SECTION 11

## TOXICOLOGICAL PROPERTIES

### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye Contact

### Acute toxicity

Not classified based on available information

### Product:

Acute oral toxicity:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

### Ingredients:

#### **Isobutyl trimethoxysilane**

Acute oral toxicity:	LD50 (rat): 10,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on test data
Acute inhalation toxicity:	LD50 (rat): >1525 ppm Exposure time: 4 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on test data

#### **Methanol**

Acute oral toxicity:	Acute toxicity estimate (Humans): 300 mg/kg Method: Expert judgment
Acute inhalation toxicity:	Acute toxicity estimate (Humans): 3 mg/l Test atmosphere: vapor Method: Expert judgment
Acute dermal toxicity:	Acute toxicity estimate (Humans): 300 mg/kg

Method: Expert judgment

**Skin corrosion/irritation**

Causes skin irritation

**Ingredients:**

**Isobutyl trimethoxysilane**

Species: Rabbit  
Result: Skin irritation  
Remarks: Based on test data

**Methanol**

Species: Rabbit  
Result: No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information

**Ingredients:**

**Isobutyl trimethoxysilane**

Species: Rabbit  
Result: No eye irritation  
Remarks: Based on test data

**Methanol**

Species: Rabbit  
Result: No eye irritation

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information

Respiratory sensitization: Not classified based on available information

**Ingredients:**

**Isobutyl trimethoxysilane**

Assessment: Does not cause skin irritation  
Test Type: Skin: test type not specified  
Remarks: No known sensitizing effect  
Result: Based on test data

**Methanol**

Test Type: Maximization Test (GPMT)  
Routes of exposure: Skin contact  
Species: Guinea pig  
Result: Negative

**Germ cell mutagenicity**

Not classified based on available information

**Ingredients:**

**Isobutyl trimethoxysilane**

Genotoxicity in vitro:  
Test type: Bacterial reverse mutation assay (AMES)  
Result: Negative  
Remarks: Based on test data

**Methanol**

Genotoxicity in vitro:  
Test type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: Negative



Genotoxicity in vivo:  
Test type: Mammalian erythrocyte micronucleus test (in vivo cytogenic assay)  
Species: Mouse  
Application route: Intraperitoneal injection  
Result: Negative

### **Carcinogenicity**

Not classified based on available information

#### **Ingredients:**

##### **Methanol**

Species: Mouse  
Application route: Inhalation (vapor)  
Exposure time: 18 months  
Method: OECD Test Guideline 453  
Result: Negative

##### **IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### **OSHA**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

##### **NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

### **Reproductive toxicity**

Not classified based on available information

#### **Ingredients:**

##### **Methanol**

Effects on fertility

Test type: Fertility/early embryonic development  
Species: Mouse  
Application route: Ingestion  
Result: Negative

Effects on fetal development

Test type: Embryo-fetal development  
Species: Mouse  
Application route: Ingestion  
Method: OECD Test Guideline 414  
Result: Positive  
Remarks: The effects were seen only in maternally toxic doses

### **STOT – single exposure**

May cause drowsiness or dizziness

#### **Ingredients:**

##### **Isobutyl trimethoxysilane**

Routes of exposure: Inhalation (vapor)  
Assessment: May cause drowsiness or dizziness  
Remarks: Information taken from reference works and the literature

##### **Methanol**

Target Organs: Eyes, Central Nervous System

Assessment: Causes damage to organs

### STOT – repeated exposure

Not classified based on available information

#### Ingredients:

##### **Methanol**

Species: Rat  
NOAEL: 1.06 mg/l  
Application route: Inhalation (vapor)  
Exposure time: 90 d

### Aspiration toxicity

Not classified based on available information

## SECTION 12

## ECOLOGICAL INFORMATION

### Ecotoxicity

#### Ingredients:

##### **Isobutyl trimethoxysilane**

Toxicity to fish LC50 (Dani rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia sp.): >864 mg/l  
Exposure time: 48 h  
Toxicity to algae EC50 (Scenedesmus subspicatus): 1,170 mg/l  
Exposure time: 72 h

##### **Methanol**

Toxicity to fish LC50 (Lepomis macrochirus (Bluegill sunfish)): >15,400 mg/l  
Exposure time: 96 h  
Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): >10,000 mg/l  
Exposure time: 48 h  
Toxicity to algae EC50 (Pseudokirchneriella subcapitata (green algae)): 22,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201  
Toxicity to fish (Chronic toxicity) NOEC (Oryzias latipes (Orange-red killifish)): 15,800 mg/l  
Exposure time: 200 h  
Toxicity to microorganisms IC50: > 1,000 mg/l  
Exposure time: 3 h

### Persistence and degradability

#### Ingredients:

##### **Isobutyl trimethoxysilane**

Biodegradability:  
Result: Not readily biodegradable  
Biodegradation: 36 – 47%  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Stability in water: Degradation half life: 4.6 h pH:7

##### **Methanol**

Biodegradability:  
Result: Readily biodegradable

Biodegradation 95%  
Exposure time: 20 d

**Bioaccumulation:**

**Ingredients:**

**Isobutyl trimethoxysilane**

Partition coefficient:

n-octanol/water:

Log Pow: -0.77

**Mobility in soil:**

No data available

**Other adverse effects:**

No data available

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Disposal methods**

Resource Conservation and Recovery Act (RCRA):

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.

Waste Code:

D001: Ignitability

Waste from residues:

Dispose of in accordance with local regulations.

Contaminated packaging:

Dispose of as unused product.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Do not burn, or use cutting torch on, the empty drum.

**SECTION 14**

**TRANSPORTATION INFORMATION**

**International Regulation**

**UNRTDG**

UN number:

UN 1993

Proper shipping name:

FLAMMABLE LIQUID, N.O.S.  
(Isobutyl trimethoxysilane, Methanol)

Class:

3

Packing group:

III

Labels:

3

**IATA-DGR**

UN/ID No.

UN 1993

Proper shipping name:

FLAMMABLE LIQUID, N.O.S.  
(Isobutyl trimethoxysilane, Methanol)

Class:

3

Packing group:

III

Labels:

Flammable Liquids

Packing instruction (cargo aircraft):

366

Packing instruction (passenger aircraft):

355

**IMDG-Code**

UN number:

UN 1993

Proper shipping name:

FLAMMABLE LIQUID, N.O.S.  
(Isobutyl trimethoxysilane, Methanol)

Class:

3

Packing group:

III

Labels:

3

EmS Code:

F-E, S-E

Marine pollutant:

No

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

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

UN/ID/NA number:	UN 1993
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Isobutyl trimethoxysilane, Methanol)
Class:	3
Packing group:	III
Labels:	FLAMMABLE LIQUID
ERG Code:	128
Marine pollutant:	No

**SECTION 15****REGULATORY INFORMATION****EPCRA – Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA – Superfund Amendments and Reauthorization Act****SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards:**

Flammable (Gases, aerosols, liquids or solids)  
 Hazard not otherwise classified (physical hazards)  
 Skin corrosion or irritation  
 Specific target organ toxicity (single or repeated exposure)

**SARA 302 Extremely Hazardous Substances Threshold Quantity:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations****Pennsylvania Right-to know:**

Isobutyl trimethoxysilane	18395-30-7	90 – 100%
Methanol	67-56-1	0.1 – 1%

**California Prop 65**

WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm.  
 Methanol 67-56-1

**The ingredients in this product are reported in the following inventories:**

NZIoC (New Zealand):	One or more ingredients are not listed or exempt.
REACH (European Union):	All ingredients (pre-) registered or exempt.
TSCA (United States of America):	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
AICS (Australia):	All ingredients listed or exempt.
IECSC (China):	All ingredients listed or exempt.

ENCS/ISHL (Japan):

All components are listed on ENCS/ISHL or exempted from inventory listing.

KECI (Korea);

All ingredients listed, exempt or notified.

PICCS (Philippines):

All ingredients listed or exempt.

DSL (Canada):

All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

TCSI

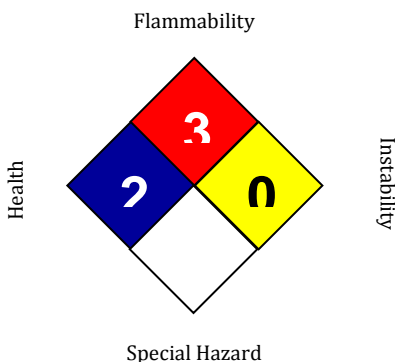
All ingredients listed or exempt.

**SECTION 16**

**OTHER INFORMATION**

**NFPA:**

**HMIS III:**



<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

- 0 = not significant**
- 1 = slight**
- 2 = moderate**
- 3 = high**
- 4 = extreme**
- \* = chronic**

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.