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# Inflatable Technologies

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1.	PRO	DUC	CTIC	ENT	FIC.	NOITA
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1.1	Product Name:	System Six ™ B component
1.2	Chemical Name;	See ingredients listed in section 2
1.3	Synonyms:	None reported by the manufacturer
1,4	Trade Names:	System Six R, S, F
1.5	Product Use:	
1.6	Manufacturer's Name:	Sakura Enterprises, Inc. dba Inflatable Technologies
1.7	Manufacturer's Address:	2290 S. Lipans St. Denver, CO 80222
1.8	Business Phone:	303.922.3111
1.9	Emergency Phone:	303.922.3111

### 2. COMPOSITION & INGREDIENTS

	CAS No./			EXPO	OSURE LIMI	TS IN AIR	(mg/m³)	
COMPOSITION	RTECS No.	%	08	SHA	AC	GIH		
	KILOS NO.		PEL	STEL	TLV	STEL	UNITS	
Proprietary	NA		NA	NA	NA	NA	NA	
Ethyl Acetic Ester	141-78-6	89-91	400	N.E.	400	N.E.	ppm	
Aromatic Diamine	NA	< 12	N.E.	N.E.	N.E.	N.E.	ppm	

REACTIVITY: 0

PERSONAL PROTECTION: J

FLAMMABILITY: 3

### 3. IDENTIFICATION OF RISKS

HEALTH: 2

3.1 Hazard Identification:

		TILAMINADILITI.	. 3   KEACHVIII ; U	PERSONAL PROTECTION: J				
3.2	Routes of Entry:	INHALATION: YES	SKIN & EYES: YES	INGESTION: YES				
3.3	Effects of Exposure:	EYES: Possible irritation and burning sensation.						
		SKIN: Possible irritation and dermatitis.						
		INGESTION: Possible gastrointestinal irritation, nausea, vomiting or diarrhea.						
		<b>INHALATION</b> : Mucous membr						
3.4	Symptoms of Exposure:	EYES: Irritation and burning se	nsation.Temporary corneal d	amage may occur.(Usually reversible)				
		SKIN: Possible irritation and de	ermatitis (rash), characteriz	ed by red, dry, itching skin				
		<b>INGESTION</b> : Gastrointestinal c	orrosion, nausea, vomitina	and headache				
		INHALATION: Bronchitis, bronch	ial spasms, and pulmonary e	dema have been reported				
3.5	Acute Health Effects:	EYES: Irritation.						
		SKIN: Possible irritation and dermatitis (rash). Isocyanate sensitivity						
		<b>INGESTION</b> : Possible gastrointe	estinal irritation, nausea, va	miting or diarrhea.				
		INHALATION: Lung damage , I	iver abnormalities, kidney,	and or spleen damage.				
3.6	Chronic Health Effects:	Possible lung, kidney, liver and	I spleen damage.	and the second s				
3.7	Target Organs:	Skin, eyes, lungs, kidney, liver c	and spleen.					
3.8	Toxicological Properties:	See section 11.	1					

#### 4. FIRST AID

4.1	First Ald:	EYES: Flush eyes thoroughly with copious amounts of water for at least 20 minutes, holding eyelids open to ensure complete flushing. If irritation persists, contact a physician.  SKIN: Wash affected areas with soap and water. If irritation persists, contact a physician. Launder clothing before reuse.  INGESTION: Do not induce vomiting. If vomiting occurs spontaneously, keep victim's
		head lowered (forward) to reduce the risk of aspiration. Get medical attention immediately.  INHALATION: Remove victim to fresh air at once.
4.2	Medical Conditions Aggravated by Exposure:	None known.

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	FIRE & EXPLOSION	
5.1	Flashpoint & Method:	- 4° C T.C.C
5.2	Autoignition Temperature:	480° C
.3	Flammability Limits:	Lower Explosive Limit (LEL): 2.0% Upper Explosive Limit (UEL): 11.00%
.4	Fire & Explosion	Flammable Liquid. Solvents are heavier than air.
.5	Hazards: Extinguishing Methods:	·
		CO <sub>2</sub> , Alcohol Foam, Dry Chemical, or Water Spray
5.6	Firefighting Procedures:	Firefighters should wear full-face, self-contained breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious clothing.
5. 5	SPILLS & LEAKS	
d	Spills:	Secure spill area and maximize ventilation. Deny entry to all unprotected individuals.
		Individuals involved in the cleanup must wear appropriate personal protective equipment Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Neutralize with a mixture of ammonia, detergent, and water.
7. :	STORAGE & HAND	DLING
7.1	Work & Hygiene Practices:	Use normal hygiene practices. Avoid breathing vapors. Avoid direct skin contact. Wash
	Truchebs.	hands thoroughly after using this product and before eating, drinking, or smoking.
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices.
7.3	Special Precautions:	Readily available emergency fire, first aid, and spill response equipment and/or measures are highly recommended.
8.	EXPOSURE CONTI	ROL & PERSONAL PROTECTION
3.1	Ventilation & Engineering Controls:	Explosion-proof ventilation equipment is sufficient foruse with this product. Local exhaust recommended in enclosed or confined spaces.
3.2	Respiratory Protection:	A respiratory protection program that meets ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use.
3.3	Eye Protection:	Safety glasses with side shields should be used with this product. If splashing is anticipated, splash goggles and a faceshield are recommended.
3.4	Hand Protection:	Where contact is likely, impervious gloves are recommended. Do not wear rings,
		watches, or jewelry that could entrap the material against the skin.
3.5	Body Protection:	None required under normal conditions.
3	DIIVCIA I A AISE	
/. '.1	PHYSICAL & CHE/ Density:	MICAL PROPERTIES
.2	Boiling Point:	7.5 lb/gal
	Volat: ility:	> 78°C
.3	<u>'</u>	76-90 %
.4	Evaporation Rate:	4.1 (water = 1)
.5	Vapor Pressure @ 342°C:	76mm Hg
.6	Molecular Weight:	NA
.7	Appearance & Colour:	Thin, amber liquid
8.0	Odor Threshold ppm:	0.016
7.9	Solubility:	
7.10	H;	Slight
2.11	Viscosity:	NA NA
2.12	Coefficient Oil/Water	NA NA
1.12	Distribution:	NA
9.13	Additional Information:	Vapor density 3.04 (Air = 1.0)

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10.	STABILITY & REAC	CTIVITY					
10.1	Stability:	Stable under normal conditions.					
10.2	Decomposition	Heat and CO,CO₂,N Oxídes,HCN,TDI,solvents.Reacts with H₂O to for	mheat.CO <sub>2</sub> and ureas				
10.3	Products: Polymerization:	NA					
10.4	Conditions to Avoid:	Close proximity to incompatible substances. High temperatures and	I sources of ignition				
10.5	Incompatible	Strong acids, strong bases, alcohols, water and amines. Some copp					
	Substances:	and g delas, shorty bases, alcohols, water and animes. Some copp	ei alloys.				
11.	TOXICOLOGICA	LINFORMATION					
11.1	Toxicity Data:	Aromatic Diamine					
1.2	Acute Toxicity(H&S scale):	LD50=3, Dermal LD50=4					
1.3	Chronic Toxicity:	NA NO					
1.4	Suspected Carcinogen:	NO					
1.5	Reproductive Toxicity:						
	Mutagenicity:	None Determined.					
	Embryotoxicity:	None Determined.					
	Teratogenicity:	None Determined.					
	Reproductive Toxicity:	None Determined.					
11.6	Irritancy of Product:	NA					
11.7	Biological Exposure Indices:	NA					
11.8	Medical Recommendations:	Treat symptomatically.					
12.	ECOLOGICAL IN	FORMATION					
12.1	Environmental Stability:	The manufacturer has not reported detailed studies on the environr	mental fate of the				
		material. However, prudent practice would dictate the material no					
		the environment.	n be allowed to effic				
12.2	Effect on Plants &	The manufacturer has not reported any plant and animal effects.					
	Animals:						
12.3	Effect on Aquatic Life:	The manufacturer has not reported any aquatic life effects.					
13.	DISPOSAL CONS	IDERATIONS					
13.1	Waste Disposal:	Dispose of in accordance with federal, state & provincial hazardous	s waste laws.				
13.2	Special Considerations:	If the material is unsuitable for recycling or reclamation, enclosed-c					
		is recommended unless otherwise prohibited by local ordinance.					
14.	TRANSPORTATIO	N INFORMATION					
14.1	DOT CLASS:	3	Shipping Name:				
14.2	UN/NA:	-	suibbing varue;				
····		1139	Coating Solution				
14.3	ER Guide Number:	127					
14.4	Packing Group:	2					
15.	REGULATORY IN	FORMATION					
15,1	SARA Reporting	This product does contain substances subject to SARA reporting rec	u iromonts				
	Requirements:	Timis product does contain substances subject to sake reporting fed	ponements.				

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		MATERIAL SAFET	Y DATA SHEET					
	REGULATORY IN	FORMATION						
15.2		COMPOSITION		CAS No./ RTECS No.	%			
	Canada WHMIS:	Ethyl Acetic Ester		141-78-6	89-91			
15.3	SARA 313:	Ethyl Acetic Ester		141-78-6	89-91			
15.4	CA PROP 65:	NA		,				
15.5	OSHA 29 CFR 1910.1200:	Hazardous						
15.6	TSCA:	On TSCA inventory.						
16.	OTHER INFORMA	TION						
		Safety & Health Administration's hazard Communication Standards and Health Canada's Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the priorities substances list.						
16.2	Terms & Definitions:	Please see page 5 of this Material Safety Data Sheet.						
16.3	Disclaimer:	Standard, 29 CFR §1910.1200 of Information System (WHMIS. To information contained herein is uitability or completeness are expressed or implied, are prov	ata Sheet complies with U.S. OSHA's Hazard Communication 10.1200 and Health Canada's Workplace Hazardous Materials VHMIS. To the best of Sakura Enterprises Inc.'s knowledge), the d herein is reliable and accurate as of this date; however, accuracy eness are not guarant eed and no warranties of any type, either are provided. The info rmation contained herein relates only to the ntact the manufacturer for additional information.					
16.4	Prepared for: SEI dba Inflatable Technologies 2290 S. Lipans St. Denver, CO 80222 Phone: 303.92.3111			able Techno				
16.5	Prepared by:	111						
Sakura Enterprises, Inc. 2290 S. Lipans St. Denver, CO 80222 Phone: 303.92.3111 Web: www.raftrepair.com								

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Prepared according to the WHMIS, ANSI, ACC & OSHA standards.

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### **DEFINITION OF TERMS**

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

#### **GENERAL INFORMATION:**

CAS No.	Chemical Abstract Service Number

#### **EXPOSURE LIMITS IN AIR:**

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

#### FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person							
	whose heart has stopped receives manual chest							
	compressions and breathing to circulate blood and provide							
	oxygen to the body.							

### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

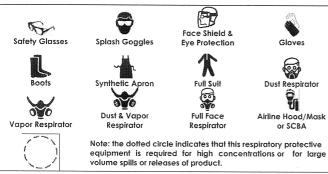
0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



#### PERSONAL PROTECTION RATINGS:

Α	B			
В	B			
С	S.	40)	~ \\	
D			小	
E	8	•		
F	B		*	





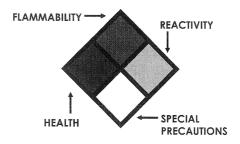
#### OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
Temperature	in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air,
	by volume, that will explode or ignite in the presence
	of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air,
	by volume, that will explode or ignite in the presence
	of an ignition source



#### HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard

ACD	Acidic
ALK	Alkaline
COR	Corrosive
-₩-	Use No Water
OX	Oxidizer

#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the
	exposed animals s
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the
1050	
	exposed animal
ppm	Concentration expressed in parts of material per
	million parts
TD <sub>Io</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TDio, LDio, & LDo	Lowest dose (or concentration) to cause lethal or
or	toxic effects
TC, TCo, LCio, & LCo	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

#### REGULATORY INFORMATION:

WHIMS	Canadian Workplace Hazardous Material Information
	System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
TSCA	U.S. Toxic Substance Control Act