# Material Safety Data Sheet

Motorial Mama	Material Name ALUMINUM ALLOYS (Series 1.2.3.5.6.7 thousand)			Sugali		
Matenal Name Synonyms				Supplier Address	Samuel, Son & Co. LTE	
-,,		Includes all sheet products, plate, strip, bar, slab, ingot, and tubular products			2360 Dixie Road Mississauga, Ontario	
WHMIS Class	D2A, D2B				L4Y 1Z7	
A4-4	Use Manufacture of Articles 7			Phone	(905) 279-5460	
Material Use				Toll Free Fax	1-800-26SAMUEL (905) 279-9658	
ection 2	Hazard	dous Ingredients (OF	=oxide fumes/DI	=dust and fi	ume/TD=Ti dioxide)	
ELEMENT	C.A.S.#	% weight	OSHA PI	EL (mg/m)	TLV (mg/m3)	
Aluminum	7429-90-5	90-99.7	N	/A	10.0 OF/5.0 DF	
Chromium	7440-47-3	<0.01-0.4	1.0 chro	me metal	0.2 fume, 0.1 dust	
Metal Copper	7440-50-8	<0.05-6.0	0.1 fume	1.0 dust	0.2 fume 1.0 dust	
Iron	1309-37-1	<0.35-1.0	10	OF	5 OF	
Magnesium	1309-48A	<0.03A.9	15	OF	10 OF	
Manganese	7439-96-5	<0.02-1.5	5c dust	5c fume	5c dust 1 fume	
Silicon	7440-21-3	<0.25-0.2	N	/A	10 total dust	
Titanium	7440-32-6	<0.02-0.2	15	TD	10 TD	
Zinc	1314-13-2	,0.05-6.1	15	OF	10 dust 5 fume	
Bismuth	7440-69-9	<0.40-0.7	N/A		N/A	
Boron	7440A2-8	.06 max	15 oxide fume		10 oxide fume	
Lond	7439-92-1	<0.40-0.7	0.05 DF		0.15 DF	
Lead						
Vanadium	7440-62-2	0.05 max	0.05c dus	t, 0.ic fume	0.05 dust & 0.05 fume	
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chills (flu like symptoms) appears to 6 hours after exposure with no know long term effects.

Chronic exposure: Chronic inhalation of alloy fume may cause a benign pneumonconconiosis (siderosis)

with few or no symptoms. Chronic inhalation of fumes may affect the digestive system, nervous system, respiratory system, muscles and joints. Sensitisation to product: Unknown Synergistic materials: Unknown Reproductive effects: No known effect Teratogenicity: No known effect Mutagenicity: No known effect Carcinogenicity of material: IARC lists Hexavalent Chromium compounds under its group 1 category. Confirmed Human Carcinogen Note: welding fume may also contain contaminants from fluxes or weiding consumables. **Preventive Measures** Section 7 Personal Protective Equipment: Dependent upon process being performed on material. Each operation must be addressed for suitable equipment and or engineering controls. Gloves: Leather faced/ cut protection Eyes: Safety glasses or face shield as appropriate Footwear: Safety shoes/ boots where required Other: Barrier cream may be used when handling Respiratory: Approved respiratory protection where applicable. Engineering Controls (eg. Ventilation, enclosures): General or local exhaust ventilation during welding. Leak and spill procedures: N/a Water disposal: N/a Storage Requirements: Keep stored material dry to prevent corrosion. Special Shipping Information: N/a **First-Aid Measures** Section 8 Skin: Wash affected area with soap and water. Seek medical attention if irritation persists. Eve: For irritation from any coating material flush eyes with plenty of water. Seek medical attention if irritation persists. Inhalation: For overexposure to alloy fumes remove to fresh air. Seek medical attention for adverse symtons Ingestion: N/a **Preparation Date of MSDS** Section 9 Prepared by Samuel, Son & Co. Ltd. 1-800-267-2683 Phone Number January 2012 Date The information contained is based on the data considered accurate, however, no warranty is expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.



## **MATERIAL SAFETY DATA SHEET**

#### SECTION 1. PRODUCT IDENTIFICATION

#### MATERIAL NAME:

ABS Pipe and Fittings

PRODUCT USE:

Plumbing product (drain, waste, vent), Industrial piping

#### **SECTION 2. PREPARATION INFORMATION**

MANUFACTURER/SUPPLIER: IPEX Inc.

807 Pharmacy Avenue Scarborough, Ontario Canada M1L 3K2 TELEPHONE NO.: PREPARED BY: DATE PREPARED: (416) 445-3400 Health, Safety and Environment February 22<sup>nd</sup> 2012

## **SECTION 3. HAZARDOUS INGREDIENTS**

This product consists primarily of high molecular weight polymers. Substances listed below are reportable hazardous ingredients as defined by the OSHA Hazard Communication Standard. Exposure limits, when available, are also listed. Styrene, if present, is listed below based upon its IARC classification as a possible carcinogen.

Additional compositional data are also provided in Section 11, REGULATORY INFORMATION, subject to supplier notification requirements.

INGREDIENT NAME	CAS NUMBER	OSHA	UNITS	ACGIH	UNITS
Carbon Black	1333-86-4	3.5	mg/m <sup>3</sup> PEL	3.5	mg/m <sup>3</sup> TLV
Styrene	100-42-5	50.0	Ppm PEL	50.0	ppm TLV
		100.0	Ppm STEL	100.0	ppm STEL

## SECTION 4. PHYSICAL DATA

PHYSICAL STATE:	Solid
ODOUR AND APPEARANCE:	Pipe and Fittings with slight odour
BOILING POINT:	Not applicable
MELTING POINT:	See COMMENT below
VAPOUR PRESSURE (mmHg):	Negligible
VAPOUR DENSITY (air=1):	Not applicable
SPECIFIC GRAVITY (water=1):	> 1
WATER SOLUBILITY:	Insoluble
% VOLATILES:	Negligible

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pH:	Not applicable
ODOUR THRESHOLD:	Not established
EVAPORATION RATE:	Negligible
COEFFICIENT WATER/OIL DISTR:	Not established
COMMENT:	This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.

SECTION 5.	FIRE OR EXPLOSION HAZARD
FIRE FIGHTING:	Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred extinguishing medium. This product will melt but will not be carried on the surface of water.
EXTINGUISHING MEDIA:	Water spray and foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.
HAZARDOUS COMBUSTION PRODUCTS:	Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, hydrogen cyanide, hydrocarbon fragments and carbon dioxide.
FLASH POINT:	Not applicable
LOWER FLAMMABLE LIMIT:	Not established
UPPER FLAMMABLE LIMIT:	Not established
AUTOIGNITION:	508°C (946°F), estimated
CONDITIONS OF FLAMMABILITY:	Requires a continuous flame source to ignite.
IMPACT SENSITIVITY:	Not sensitive to mechanical impact.
STATIC DISCHARGE:	Not sensitive to static discharge.

## **SECTION 6. REACTIVITY DATA**

STABILITY:	Stable under recommended conditions of storage and handling.						
REACTIVITY:	Not reactive under recommended conditions of handling, storage, processing and use.						
CONDITIONS TO AVOID:	Do not exceed melt temperature recommendations in product literature.						
HAZARDOUS DECOMPOSITION:	Processing fumes evolved at recommended processing conditions may include trace levels of styrene, acrylonitrile, acrolein, acetaldehyde, acetophenone, ethylbensene, cumene, 4-vinylcyclohexene and phenols.						
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## SECTION 7. TOXICOLOGICAL PROPERTIES

- **ORAL ACUTE:** Oral  $LD_{50}$  (Rat) > 5 g/kg, estimated.
- **COMPONENTS:** Styrene monomer is listed as a possible carcinogen by IARC. Rats exposed to acrylonitrile by inhalation or ingestion induced brain, zymball gland (no comparable human gland) and stomach tumours.
- **EMERGENCY OVERVIEW:** ABS Pipe and Fittings with slight or no odour. Can burn in a fire creating dense toxic smoke. Molten plastic an cause severe thermal burns. Fumes produced if melted or burned may cause eye, skin and respiratory tract irritation. Secondary operations, such as grinding, sanding or sawing, can produce dust which may present an explosion or respiratory hazard.

#### POTENTIAL HEALTH EFFECTS

EYE:	Product may cause irritation or injury due to mechanical action.
SKIN:	ABS Pipe and Fittings not likely to cause skin irritation.
INGESTION:	Not acutely toxic.

#### CHRONIC/CARCINOGENICITY

NTP:	Not tested		
OSHA:	Not regulated		
IARC:	Listed		

**MEDICAL RESTRICTIONS:** There are no known human health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing fumes.

**NOTE:** OSHA, IARC and/or NTP have listed carbon black and heavy metals, present in some colorants, as carcinogens. If these colorants are present in this product, they are shown in SECTION 2. These colorants are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

#### SECTION 8. PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT TO BE USED: ENGINEERING CONTROLS TO BE USED:	When cutting, the use of eye protection and a NIOSH-approved respirator for dust is recommended. Ventilate adequately when cutting.
WASTE DISPOSAL: PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL: HANDLING PROCEDURES AND EQUIPMENT:	<ul><li>Handle in accordance with federal, state, provincial and municipal regulations.</li><li>Pipe fragments and debris should be swept up and removed to a disposal container.</li><li>Avoid creating and breathing ABS dust.</li></ul>
STORAGE REQUIREMENTS:	None

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SPECIAL SHIPPING INFORMATION:

Not applicable

#### SECTION 9. EMERGENCY AND FIRST AID MEASURES

SPECIFIC FIRST<br/>AID MEASURES:No situation is likely to arise from routine handling of ABS Pipe and Fittings.EYES:Remove contact lenses at once. Immediately flush eyes will with copious quantities of<br/>water or normal saline for at least 20-30 minutes. If irritation persists, seek medical<br/>attention.SKIN:Wash skin thoroughly with soap and water. Seek medical attention if rash or burn<br/>occurs.INGESTION:Not probable. If a large amount is swallowed, seek medical attention.INHALATION:Not likely to be inhaled due to physical form.

## SECTION 10. REGULATORY INFORMATION

Listed below are chemical substances subject to supplier notification requirements. The percentages, when present, represent average values.

INGREDIENT NAME	CAS NUMBER	EPCRA 313 %	WHMIS %	NPRI %	CA-65 %	FL RI
4-ethenylcyclohexene	100-40-3				<0.1	
Styrene	100-42-5	0.2				
Acrylonitrile	107-13-1				<0.01	

**CA-65:** Chemical substances identified under the California Proposition 65 column are known to the State of California to cause cancer and/or reproductive toxicity.

**TSCA STATUS:** This product complies with the Chemical Substance Inventory requirements of the US EPA Toxic Structures Control Act (TSCA).

WHMIS CLASSIFICATION: Not a controlled product.

## SECTION 11. ADDITIONAL GENERAL INFORMATION

Disclaimer:

The information contained in this material safety data sheet is based on information available to IPEX Inc. and is believed to be accurate. Where this information is based on data developed by third parties, IPEX Inc. expressly denies liability. IPEX Inc. makes no warranty, expressed or implied, regarding the accuracy of this information or data or the results obtained from its use. All recommendations are made without guarantee, since the conditions of use of this product are beyond IPEX Inc.'s control. IPEX Inc. assumes no responsibility for any damages resulting form the use of this product described herein.

Please consult IPEX Inc. for further information.

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