



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
25-110-XX, 25-100-XX

Product Name: Essix A Plastics

Release Date: April 13, 2007

1. Product and Company Identification

Trade Name & Synonyms Essix A+™ Plastic	MSDS Code Number Refer to part number
Chemical Name N/A. Molecular weight: N/A	Manufacture / Distributor GAC International Inc.
C.A.S. Number 25640-14-6	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) Food, medical, and general purpose packaging, graphic arts, fabricated plastic parts, signs, displays, stationary supplies, lenses and various.	Emergency Telephone Number 1-631-419-1700

2. Composition of Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
Copolyester	25640-14-6		100

3. Hazard Identification

Emergency Overview CAUTION: Molten material will produce thermal burns. Powdered material may form explosive dust –air-mixtures.					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	NA	NA	NA	NA	NA
Skin	NA	NA	NA	NA	NA
Inhalation	NA	NA	NA	NA	NA
Ingestion	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure NA					
Carcinogenicity (IARC, NTP) NA					
Potential Environmental Effects NA					

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Any material that contacts the eye should be washed out immediately and medical attention obtained if symptoms persist.	NA	NA
Skin	If burned by contact with molten material, cool as quickly as possible with water.	See a physician for treatment of burn.	NA
Inhalation	Remove to fresh air. Treat symptomatically.	Get medical attention if symptoms occur.	NA
Ingestion	Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary.	NA	NA
Other	NA	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring) Burns should be treated as thermal burns. The plastic will come off as healing occurs; therefore, immediate removal from the skin is not necessary.			



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5. Fire and Explosion Data

Flashpoint & Method: °C / °F Non-volatile, combustible.	Flammable (Explosive) Limits in Air LEL: N/A UEL: N/A	Autoignition Temperature N/A	Other Sensitivity to static discharge: N/A. Explosive power: N/A
Flame Propagation or Burning Hazardous combustion products: Carbon monoxide, carbon dioxide.	Properties Contributing to Fire Intensity NA	Flammability Classification Health- 0, Flammability-1 , Reactivity- 0	
Extinguishing Media Water spray or dry chemical.		Extinguishing Media to Avoid NA	
Protection and Procedures for Firefighters Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			
Unusual Fire and Explosion Hazards Powdered material may form explosive dust mixtures. Minimize dust generation and accumulation. Refer to NFPA Pamphlet No. 654 prevention of fire and dust explosions in the chemical, dye, pharmaceutical, and plastics industries.			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment Sweep or scoop up and remove.
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA

7. Handling and Storage

Handling Practices and Warnings Keep from contact with oxidizing material.
Storage Practices and Warnings (°C / °F). NA

8. Exposure Control/Personal Protection

Ventilation Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces. Mechanical generation of dusts heating drying, etc.	Other Engineering Controls NA	
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	Safety glasses with side shields (or goggles) are recommended for any type of industrial chemical handling.	NA
Skin	Wear gloves to protect against thermal burns.	NA
Inhalation	Respiratory protection: An approved respirator should be worn if needed. Respirator type: dust and fume.	NA



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General Hygiene Considerations and Work Practices Recommended decontamination facilities: eye bath, safety shower, washing facilities.
Protective Measures During Repair and Maintenance of Contaminated Equipment Preventative measures: None should be needed under anticipated conditions of use.
Other Protective Measures and Equipment Note: Recommendations for personal protection are for industrial handling of material; requirements for laboratories should be in accordance with good laboratory practices.

9. Physical and Chemical Characteristics

Appearance Solid (film or sheet). Color: Colorless		Odor Slight. Odor threshold: N/A
Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Solid <input type="checkbox"/> ____ (Other)		Boiling Point °C / °F N/A Melting Point 100 °C / 212 °F Freezing Point °C / °F NA
Specific Gravity or Density (H₂O=1) 1	Solubility in Water Negligible	pH N/A
Vapor Pressure (mm Hg @ 20°C) NA	Vapor Density (AIR= 1) NA	Evaporation Rate (Butyl Acetate = 1) N/A
Other Octanol / water partition coefficient: N/A		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) Oxidizers	
Hazardous Products Produced During Decomposition NA	
Hazardous Polymerization? <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	Conditions to Avoid °C / °F NA
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid °C / °F NA

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data Exposure limits: ACGIH Threshold limit value and OSHA (USA) permissible exposure limit (PEL): N/E Effects of exposure: Inhalation: Low hazard for usual industrial handling. Eyes: Low hazard for usual industrial handling or commercial handling by trained personnel. Skin: Molten material will produce thermal burns. I Ingestion: Expected to be a low ingestion hazard. Carcinogenicity classification: IARC Not listed. NTP (USA): Not listed. OSHA (USA): Not listed. ACGIH: Not listed.		
Toxicity data:	<u>Acute toxicity data</u>	<u>Species</u> <u>Result</u>
	Oral LD-50	rat }3200 mg/kg
	Oral LD-50	mouse }3200 mg/kg



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Inhalation LC-50	n/a	
Dermal LD-50	guinea pig	}1000mg/kg
Skin irritation	guinea pig	slight
Repeated skin application	guinea pig	No irritation
Skin sensitization	guinea pig	None
Eye irritation	rabbit	slight

Definitions for the following sections: LOEL= lowest –observed-level-effect level.
NOAEL= no-observed-adverse-effect-level.
NOEL = no-observed-adverse-effect-level.

Subchronic toxicity data: Oral study (11 days, male rate): NOEL-730 mh/kg/day (highest dose)

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

Summary: This environmental effects summary is written to assist in addressing emergencies created by an accidental spill which might occur during the shipment of this material, and in general, it is not meant to address discharges to sanitary sewers or publicly owned treatment works, and, in general, it is not meant to address discharges to sanitary sewers or publicly owned treatment works.

Acute Aquatic Effects Data: 96-h LC-50 (fathead minnow): }100mg/L (highest dose tested)

96-h LC-50 (daphnid): 100mg/L (highest dose tested)

96-h LC-50 (ramshorn snail): }100mg/L (highest dose tested)

96-h LC-50 (flatworm): }100mg/L (highest dose tested)

7-day plant germination effect-No adverse-effect concentration: Ryegrass: }100mg/L (highest dose tested)

Radish: }100mg/L (highest dose tested)

Lettuce: }100mg/L (highest dose tested)

Summary: These materials have not been tested for environmental effects: They are made from high molecular weight polymers with very low water solubility. As such, they are expected to have low biochemical oxygen and to cause essentially no oxygen germination and early growth of plants. They are expected to be non-biodegradable and unpleasant. However, they are not expected to cause adverse environmental effects.

13. Disposal Considerations

Regulations

Waste disposal (observe all laws concerning health and environment): Incineration.

Properties (Physical/Chemical) Affecting Disposal

NA

14. Transport Information

Regulated for shipping?

Yes No

Proper Shipping Name

Essix A plastics

Packing Group

NA

Do changes in quantity, packaging, or shipment method change product classification?

Yes No NA

Hazard Class

NA

Identification Number

NA

Other

TDG (Canada classification): Not regulated.

International civil aviation organization (ICAO): Not regulated.

International Maritime dangerous goods (IMDG): Not regulated.



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15. Regulatory Information

Federal Regulations

OSHA (USA): Hazardous chemical (s) according to 29 CFR 1910, 1200 none.

WHMIS (Canada) Controlled material(s): None

WHMIS (Canada) Controlled product: No

Material known to the state of California to cause cancer: None

Material known to the state of California to cause adverse reproductive effects: None

Massachusetts substance list: None

New jersey workplace hazardous substance list: None

Pennsylvania hazardous substance list: None

Chemical (s) subject to the reporting requirements of section 313 of title III of the superfund amendments and reauthorization act (SARA) of 1986 and 40 CFR part 372 (USA) : None

SARA (USA) sections 311 and 312 hazard classification (s): N/A

CONEG Legislation: No lead, mercury, cadmium, or hexavalent chromium are intentional added. The sum of trace impurities for lead, mercury, cadmium, and hexavalent chromium is well below the maximum limit of 100 PPM as proposed in the CONEG legislation.

Other heavy metals: No arsenic, selenium and antimony are intentionally added, and the sum of trace impurities is below 20 ppm.

HMIS hazard ratings: Health -0

Flammability -1

Chemical reactivity -0

NFPA Hazard ratings: Health- -0

Flammability -1

Chemical reactivity -0

TSCA: This material is listed on the TSCA (USA) inventory.

International Regulations

Canadian environmental protection act (CEPA) and domestic substances list (DSL): This product is listed on the DSL or otherwise complies with CEPA new substance notification requirements.

European inventory of existing commercial chemical substances (EINECS): This product is listed on EINECS or has been approved in the European community by new substance notification.

Australian inventory of chemical substances (AICS) and national industrial chemicals notification and assessment scheme (NICNAS): This product is listed on AIC or otherwise complies with NICNACS.

Japanese handbook of existing and new chemical substances: This product is listed in the handbook or has been approved in Japan by new substance notification

Other

NA

16. Other Information

Supplier Number: 40/25

Supplier Release: NA

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.