

Environmental and Safety Review

PURPOSE

To ensure an evaluation of environmental and safety considerations is conducted on all new non-haz materials at the plant and that this process is integral to the material's approval.

To ensure new non-haz fuels and raw material will be reviewed by the Buzzi Unicem environmental and safety personnel, who will assess compliance with Lone Star Industries, Inc. environmental and safety policies and legal requirements concerning the material's handling, storage and usage.

Community Right to Know

Every material that is received, stored and used at the plant is subject to CERCLA and EPCRA community right to know reporting. Constituents that are used for fuel and raw materials are applicable.

Air

Any material that has Hazardous Air Pollutants (HAPs) as defined in Section 112 of the CAA are required to be evaluated for potential emissions.

Materials that contain volatile organic compounds must be evaluated for emissions. Any potential VOC's that could be emitted at > 1 lb/hr must go through State air permitting with IDEM.

Materials that contain particle sizing that could become air borne during handling and emit greater than 1 lb/hr must be evaluated against current State air permits and air pollution controls. Any materials with particle sizing of less than 10 micron with the potential to emit 3.5 lb/hr must have controls installed.

All materials at the plant must be evaluated and continuously monitored for Cd, Pb, Hg, Cr, Be, As and Cl. The Alternate Fuels dept will be responsible for the analysis and set up of feedstream monitoring. Samples are needed prior to delivery and will be analyzed monthly thereafter.

The Portland Cement MACT Operation and Maintenance Plan and the Start up/Shut Down Malfunction Plan must be updated with any new material handling, storage and delivery methods employed in the use of new fuels and raw materials.

Water

All materials brought on site must be evaluated for any CWA priority pollutants as defined in 40 CFR 116 or that contain oil, used oil, or petroleum products. These materials will be incorporated into the plant Stormwater Permit, and Management Plan if the materials are stored on-site and exposed to precipitation, runoff or runoff.

Land

Materials with used oil, or non-haz RCRA exemptions (comparative fuels, characteristic/listed waste defined as raw material or fuel) will need documentation of beneficial reuse and a supplier certification of exemption.

No municipal waste raw material or fuels can be accepted or any material that attracts or sustains disease vectors as defined in 329 IAC 10-2-58. No raw materials or fuels can be accepted with infectious or post medical use.

Analytical and MSDS

For purposes of CERCLA reporting, SDS is requested for all materials, otherwise analytical for all major constituents will be required.

The Alternate fuels department will conduct initial and ongoing analytical for Cd, Pb, Hg, Cr, Be, As and Cl.

TCLP will be required for any RCRA exemption materials.



BUZZI UNICEM USA

**Alternate Nonhaz Solid Fuel
and Raw Materials Profile**

3301 South County Road 150 West * PO Box 482 * Greencastle, Indiana 46135

Please complete the attached completely and accurately. Submit this waste profile with a representative sample of the material you would like us to consider as an alternate fuel or raw material. You can submit the application and sample to the address above.

Page 1. Profile

All questions must be answered completely and accurately about the waste stream you would like considered. We require a separate profile for each stream generated. In addition, US EPA has asked us to request suppliers to provide available information regarding EPCRA 313 (TRI - Form R) reportable chemicals. Please include any outside analytical that may be available, including any available MSDS's as supplemental information to each profile. Be sure to sign and date the profile before submission.

Page 2. Regulatory List

It is Buzzi's intention to maintain compliance with all environmental regulations. In order to assure compliance with all environmental permits, this sign-off sheet has been prepared to identify certain critical compounds that the facility must track or otherwise may be limited to handle. The Hazardous Air Pollutants (HAPS) list is included on Page 3 to assist in determining what compounds must be considered. Please provide as much information as is known about the waste stream. Be sure to sign and date the regulatory sheet before submission.

Page 3. HAPS List

For use in completing Page 2, this Clean Air Act HAPS list has been provided to assist in determining compounds of interest.

Page 4. Credit Application

Please complete the Lone Star Credit Application if you are not currently approved to ship materials to the Lone Star Facility and the material will have a disposal fee charged.



BUZZI UNICEM USA ALTERNATE FUELS

Profile No. **TBD**

(This number must appear on bill of lading)

Date Received _____

ALTERNATE FUEL AND RAW MATERIAL PROFILE SHEET

rev. 7 **18/10/2017**

Page 1 of 4

A. GENERATOR INFORMATION

GENERATOR NAME: _____
FACILITY ADDRESS: _____
FACILITY CONTACT: _____
EMAIL ADDRESS: _____
PHONE: _____ Fax _____
EMERGENCY 24 HR #: _____

B. BILLING INFORMATION (IF DIFFERENT)

COMPANY NAME: _____
BILLING ADDRESS: _____
BILLING CONTACT: _____
SALES CONTACT: _____
EMAIL ADDRESS: _____
PHONE: _____ Fax: _____
EMERGENCY 24 HR #: _____

C. MATERIAL INFORMATION

Is the material a waste stream? YES NO Process Generating Waste *please attach a narrative*

Hazardous (RCRA) Hazardous (DOT) Non-Hazardous *we need a complete description of the process generating the waste*
DOT Description: _____ If **hazardous STOP** here. Material can **NOT** be used as non-hazardous alternate fuel or raw material.

MATERIAL CLASSIFICATION

How was the material determined to be non-hazardous? Process Knowledge Test per 40 CFR 261. Date last characterized _____
What are the two primary constituents? _____
ARE THERE ANY SPECIAL HANDLING / STORAGE CONSIDERATIONS (i.e. for CAA or CWA)? If yes, describe: _____
Method of Shipment: Bulk Truck Drum Gaylord Box Other Specify if other: _____
Annual quantity _____ On going business One Time Event

D. CHEMICAL AND PHYSICAL PROPERTIES

(Supply outside analytical / TCLP if available)

Color _____ Odor _____ Flash Point _____ Viscosity _____ cps pH _____
Estimated water content _____ %
Estimated heat value _____ (Btu/Lb) **Provide information and analysis on Regulatory Limited Substances at the Greencastle Cement Plant on Page 2**
Estimated Halogen Content (%): Br _____, Cl _____, F _____, I _____
Estimated concentration of sulfur _____ %
Estimated weight _____ lb/gal, Bulk Density _____ lb/cu. ft
Estimated cement compound content (%): CaO _____, SiO₂ _____, Al₂O₃ _____, MgO _____, SO₃ _____, Na₂O _____, K₂O _____, ZnO _____
Physical State Liquid Semi-Solid Powder Solid Granular Other Describe: _____
Does the material have a strong odor? Yes No If yes, what are the constituents of concern? _____
Does the material contain any Hazardous Air Pollutants (see list on Page 3)? YES NO If yes, list on Page 2.

E. CHEMICAL COMPOSITION

(Supply SDS)

Compound (CAS # If Available)	Percentage	Compound (CAS # If Available)	Percentage
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

WARRANTIES AND CERTIFICATIONS

The following substances *will not* be accepted as an alternate fuel or raw material by Lone Star Industries.
Biological/Infectious wastes TSCA regulated materials Reactive cyanides Explosives
Municipal Mixed Waste Low Btu fuel (<2,500 Btu/lb) Reactive sulfides Mercury
Radioactive materials PCB regulated materials (>40 ppm) Pyrophoric materials Incompatible Materials

Page 2 of this profile includes information regarding certain regulatory limited substances. Please complete the page and sign. Page 3 of this profile includes a list of Hazardous Air Pollutants (HAPs). Please consider the compounds on this list when completing the regulatory certification on Page 2.

The sample submitted is representative of the material stream, any significant changes to the above described materials will require notification and a new ARM Profile Sheet to be submitted prior to shipment. By signature below, the generator or it's duly authorized representative, hereby represents and warrants that to the best of its knowledge the information contained herein is true, accurate and complete in all respects and that all known hazards have been disclosed.

Name: (Please print) _____ Title: _____
Signature: _____ Date: _____

Note: A complete Waste Characterization or SDS may suffice for sections D and E above.

Please indicate if any shipment from your alternate fuel or raw material stream(s) contains any of the following compounds/chemicals. If process knowledge can be used to verify the compounds/chemicals are not present, indicate that the compounds are not present in the certification box below. Concentrations should be shown in parts per million or % as appropriate.

REGULATORY LIMITED SUBSTANCES AT THE GREENCASTLE CEMENT PLANT

Compound/Chemicals	Test Method	Present	Concentration, If Known (ppm)	May Be Present Above Screening Threshold (Check box)	Screening Threshold (% or ppm)
Halogens (%) (Total chlorine/chloride; fluoride)	SW846 5050 & 9056A	<input type="checkbox"/>		<input type="checkbox"/>	2%
Organic Compounds *					
Total Volatile Organic Compounds	EPA624 or SW846 8260B	<input type="checkbox"/>		<input type="checkbox"/>	1%
Organic HAPs present (list)		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
Total HAP Metals (ppm)					
Antimony (Sb)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	100 ppm
Arsenic (As)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	100 ppm
Beryllium (Be)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	100 ppm
Cadmium (Cd)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	20 ppm
Chromium (Cr)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	100 ppm
Hexavalent Chromium		<input type="checkbox"/>		<input type="checkbox"/>	0 ppm
Cobalt (Co)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	100 ppm
Cyanide Compounds		<input type="checkbox"/>		<input type="checkbox"/>	0 ppm
Lead (Pb)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	100 ppm
Manganese (Mn)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	100 ppm
Mercury (Hg)	SW846 7471B (or 7470A)	<input type="checkbox"/>		<input type="checkbox"/>	0.2 ppm
Nickel (Ni)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	100 ppm
Selenium (Se)	SW846 6010C	<input type="checkbox"/>		<input type="checkbox"/>	20 ppm
Fine mineral fibers (asbestos)		<input type="checkbox"/>		<input type="checkbox"/>	0 ppm

* See HAPs list on Page 3. Identify and list concentrations of any organic HAPS present in the alternate fuel or raw material stream.

(Check the appropriate box below)

Waste to be shipped to Lone Star as Non-Hazardous Alternate Raw Materials or Fuels does not contain any of the above listed chemicals that exceed any of the above screening quantities.

Waste to be shipped to Lone Star as Non-Hazardous Alternate Raw Materials or Fuels may contain the above listed chemicals in excess of the screening threshold quantity. Advance notice is required of any of the listed chemicals shipped to Lone Star that exceed the above specified limits. Materials that exceed the screening threshold may not be accepted.

Generator Certification

Name: _____

Signature: _____

Date: _____

Company: _____

Title: _____

CLEAN AIR ACT LIST OF HAPs

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
75070	Acetaldehyde	1319773	Cresols/Cresylic acid (isomers and mixture)	107211	Ethylene glycol	684935	N-Nitroso-N-methylurea
60355	Acetamide	95487	o-Cresol	151564	Ethylene imine (Aziridine)	62759	N-Nitrosodimethylamine
75058	Acetonitrile	108394	m-Cresol	75218	Ethylene oxide	59892	N-Nitrosomorpholine
98862	Acetophenone	106445	p-Cresol	96457	Ethylene thiourea	56382	Parathion
53963	2-Acetylaminofluorene	98828	Cumene	75343	Ethylidene dichloride (1,1-Dichloroethane)	82688	Pentachloronitrobenzene (Quintobenzene)
107028	Acrolein	94757	2,4-D, salts and esters	50000	Formaldehyde	87865	Pentachlorophenol
79061	Acrylamide	3547044	DDE	76448	Hepachlor	108952	Phenol
79107	Acrylic acid	334883	Diazomethane	118741	Hexachlorobenzene	106503	p-Phenylenediamine
107131	Acrylonitrile	132649	Dibenzofurans	87683	Hexachlorobutadiene	75445	Phosgene
107051	Allyl chloride	96128	1,2-Dibromo-3-chloropropane	77474	Hexachlorocyclopentadiene	7803512	Phosphine
92671	4-Aminobiphenyl	84742	Dibutylphthalate	67721	Hexachloroethane	7723140	Phosphorus
62533	Aniline	106467	1,4-Dichlorobenzene(p)	822060	Hexamethylene-1,6-diisocyanate	85449	Phthalic anhydride
90040	o-Anisidine	91941	3,3-Dichlorobenzidine	680319	Hexamethylphosphoramide	1336363	Polychlorinated biphenyls (Aroclors)
1332214	Asbestos	111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)	110543	Hexane	1120714	1,3-Propane sultone
71432	Benzene (including benzene from gasoline)	542756	1,3-Dichloropropene	302012	Hydrazine	57578	beta-Propiolactone
92875	Benzidine	62737	Dichlorvos	7647010	Hydrochloric acid	123386	Propionaldehyde
98077	Benzotrithiolide	111422	Diethanolamine	7664393	Hydrogen fluoride (Hydrofluoric acid)	114261	Propoxur (Baygon)
100447	Benzyl chloride	121697	N,N-Diethyl aniline (N,N-Dimethylaniline)	123319	Hydroquinone	78875	Propylene dichloride (1,2-Dichloropropane)
92524	Biphenyl	64675	Diethyl sulfate	78591	Isophorone	75569	Propylene oxide
117817	Bis(2-ethylhexyl)phthalate (DEHP)	119904	3,3-Dimethoxybenzidine	58899	Lindane (all isomers)	75558	1,2-Propylenimine (2-Methyl aziridine)
542881	Bis(chloromethyl)ether	60117	Dimethyl aminoazobenzene	108316	Maleic anhydride	91225	Quinoline
75252	Bromoform	119937	3,3'-Dimethyl benzidine	67561	Methanol	106514	Quinone
106990	1,3-Butadiene	79447	Dimethyl carbamoyl chloride	72435	Methoxychlor	100425	Styrene
156627	Calcium cyanamide	68122	Dimethyl formamide	74839	Methyl bromide (Bromomethane)	96093	Styrene oxide
133062	Captan	57147	1,1-Dimethyl hydrazine	74873	Methyl chloride (Chloromethane)	1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin
63252	Carbaryl	131113	Dimethyl phthalate	71556	Methyl chloroform (1,1,1-Trichloroethane)	79345	1,1,2,2-Tetrachloroethane
75150	Carbon disulfide	77781	Dimethyl sulfate	60344	Methyl hydrazine	127184	Tetrachloroethylene (Perchloroethylene)
56235	Carbon tetrachloride	534521	4,6-Dinitro-o-cresol, and salts	74884	Methyl iodide (Iodomethane)	7550450	Titanium tetrachloride
463581	Carbonyl sulfide	51285	2,4-Dinitrophenol	108101	Methyl isobutyl ketone (Hexone)	108883	Toluene
120809	Catechol	121142	2,4-Dinitrotoluene	624839	Methyl isocyanate	95807	2,4-Toluene diamine
133904	Chloramben	123911	1,4-Dioxane (1,4-Diethyleneoxide)	80626	Methyl methacrylate	584849	2,4-Toluene diisocyanate
57749	Chlordane	122667	1,2-Diphenylhydrazine	1634044	Methyl tert butyl ether	95534	o-Toluidine
7782505	Chlorine	106898	Epichlorohydrin (1-Chloro-2,3-epoxypropene)	101144	4,4-Methylene bis(2-chloroaniline)	8001352	Toxaphene (chlorinated camphene)
79118	Chloroacetic acid	106887	1,2-Epoxybutane	75092	Methylene chloride (Dichloromethane)	120821	1,2,4-Trichlorobenzene
532274	2-Chloroacetophenone	140885	Ethyl acrylate	101688	Methylene diphenyl diisocyanate (MDI)	79005	1,1,2-Trichloroethane
108907	Chlorobenzene	100414	Ethyl benzene	101779	4,4-Methylenedianiline	79016	Trichloroethylene
510156	Chlorobenzilate	51796	Ethyl carbamate (Urethane)	91203	Naphthalene	95954	2,4,5-Trichlorophenol
67663	Chloroform	75003	Ethyl chloride (Chloroethane)	98953	Nitrobenzene	88062	2,4,6-Trichlorophenol
107302	Chloromethyl methyl ether	106934	Ethylene dibromide (Dibromoethane)	92933	4-Nitrobiphenyl	121448	Triethylamine
126998	Chloroprene	107062	Ethylene dichloride (1,2-Dichloroethane)	100027	4-Nitrophenol	1582098	Trifluralin
				79469	2-Nitropropane	540841	2,2,4-Trimethylpentane

CLEAN AIR ACT LIST OF HAPs

CAS Number	Chemical Name
108054	Vinyl acetate
593602	Vinyl bromide
75014	Vinyl chloride
75354	Vinylidene chloride (1,1-Dichloroethylene)
1330207	Xylenes (isomers and mixture)
95476	o-Xylenes
108383	m-Xylenes
106423	p-Xylenes
n/a	Antimony Compounds
n/a	Arsenic Compounds (Inorganic including arsine)
n/a	Beryllium Compounds
n/a	Cadmium Compounds
n/a	Chromium Compounds
n/a	Cobalt Compounds
n/a	Coke Oven Emissions
n/a	Cyanide Compounds ¹
n/a	Glycol ethers ²
n/a	Lead Compounds
n/a	Manganese Compounds
n/a	Mercury Compounds
n/a	Fine mineral fibers ³
n/a	Nickel Compounds
n/a	Polycyclic Organic Matter ⁴
n/a	Radionuclides (including radon) ⁵
n/a	Selenium Compounds

CLEAN AIR ACT LIST OF HAPs

Footnotes

For all listings above which contain the word "compounds" and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.

- ¹ X'CN where X = H' or any other group where a formal dissociation may occur. For example KCN or Ca(CN)₂
- ² Includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH₂CH₂)_n-OR' where n = 1, 2, or 3 R = alkyl or aryl groups R' = R, H, or groups which, when removed, yield glycol ethers with the structure: R-(OCH₂CH₂)_n-OH. Polymers are excluded from the glycol category.
- ³ Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.
- ⁴ Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 ° C.
- ⁵ A type of atom which spontaneously undergoes radioactive decay.



BUZZI UNICEM USA

ALTERNATE FUELS

3301 South County Road 150 West * PO Box 482 * Greencastle, Indiana 46135 *

Plant: (765) 653-9766 Fuels Facility: (765)653-8816 Fax: (765) 653-3556

APPLICATION FOR BUSINESS CREDIT

Name of Firm:		E-Mail Address:	
Street Address:		Phone No:	
Mailing Address:		Fax No:	
City:	State:	Zip:	Credit Limit Requested: \$
Proprietorship	Partnership	Corporation	LLC
Name(s) of:	Owner	Partners	Officers

FINANCIAL INFORMATION

Trade References:

1 Name: _____ Address: _____ City/State/Zip: _____ Phone: _____ Fax: _____	4 Name: _____ Address: _____ City/State/Zip: _____ Phone: _____ Fax: _____
2 Name: _____ Address: _____ City/State/Zip: _____ Phone: _____ Fax: _____	5 Name: _____ Address: _____ City/State/Zip: _____ Phone: _____ Fax: _____
3 Name: _____ Address: _____ City/State/Zip: _____ Phone: _____ Fax: _____	6 Name: _____ Address: _____ City/State/Zip: _____ Phone: _____ Fax: _____

Bank References:

Name of Bank: _____
Address: _____
City/State/Zip: _____
Officer: _____
Phone: _____
Account #: _____

FOR GREENCASTLE ALTERNATE FUELS USE ONLY

Shipping Location: _____
Bank Report Ordered:
 Approved Not Approved
By: _____
Credit Limit \$ _____ Account # _____

FOR AND IN CONSIDERATION of the extension of credit for the purchase of goods, materials and services the undersigned applicant(s) agree(s) to:

1. Furnish any additional financial information, including but not limited to current financial statements, personal or corporate, from time to time as requested by the credit grantor.
2. To pay amounts due within stated terms (terms stated on reverse side of each invoice) for materials as purchased and applicant understands that credit can be suspended at option of credit grantor for payments not so paid.
3. To pay service charges (delinquent charges) at a rate of 1.5% per month on any and all balances that are past due per stated terms for payment.
4. Should it be necessary to assign the account balance to a licensed collection agency or attorney for collection, all the subsequent collection charges, legal fees and court cost shall be paid by the applicant.
5. To inform credit grantor of any material changes in the condition of the firm.
6. By signature below, I hereby authorize the release of requested financial information from the above stated references.

NAME OF COMPANY: _____
SIGNATURE: _____ DATE: _____
TITLE: _____