

Air Quality Assessment

**Logan Corporation, Inc.
AI # 2870**

Prepared with the assistance of



Air Permit Renewal- Process Description and Emission Calculations Logan Corporation, Inc. (AI 2870)

Process Description

Logan Corporation, Inc. is in the motor vehicle body manufacturing industry making and refurbishing custom dump truck beds. They currently hold a Conditional Major permit (F-18-061) expiring on July 11, 2024; they have requested ECAP's assistance to submit their air permit renewal.

In April 2021, the facility began operation of a Wheelabrator abrasive blasting cabinet using steel shot media to clean metal parts prior to spray coating. A dust collector (Camfil Farr Gold Series GS 20 Dust Extractor) is attached to control the emission of particulate matter. The facility is requesting a minor revision to add Insignificant Activity, IA06- Abrasive Blasting, to their air permit.

No additional regulations will apply to this activity. Also, no other changes have been made to the facility's equipment or operations.

Emission Calculations

Based on historic usage and operational data provided by the facility, actual rates were determined and then modified to represent potential usage rates for all emission point sources. For the following process, 8,760 hours per year was used as the potential operating time.

Insignificant Activity

IA06 – Abrasive Blasting

- Throughput: 1.54E-03 tons/hr
- Emission Factor Source: AP-42 Chapter 13.2.6; HAPs SDS% by weight
- Control: Dust Collector- Assume 98.00% control of PM, PM₁₀, Manganese, and Nickel

Prepared with the assistance of



Recommendation

Based on potential emission calculations and applicable requirements, the Environmental Compliance Assistance Program is recommending **Logan Corporation** apply for a **Conditional Major Permit**. Emission calculations for the new insignificant activity are below:

Facility-wide Emissions

Pollutant	Uncontrolled (TPY)	Controlled (TPY)
PM	1.23E-01	2.45E-03
PM ₁₀	1.75E-02	3.50E-04
Manganese	1.47E-03	2.94E-05
Nickel	2.45E-04	4.91E-06
Total HAPs	1.72E-03	3.43E-05

Prepared with the assistance of



Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007AI

Administrative Information

- Section AI.1: Source Information
- Section AI.2: Applicant Information
- Section AI.3: Owner Information
- Section AI.4: Type of Application
- Section AI.5: Other Required Information
- Section AI.6: Signature Block
- Section AI.7: Notes, Comments, and Explanations

Additional Documentation

Additional Documentation attached

Source Name: Logan Corporation, Inc

KY EIS (AFS) #: 21- 153-00031

Permit #: F-18-061

Agency Interest (AI) ID: 2870

Date: 12/5/2023

Section AI.1: Source Information

Physical Location	Street:	<u>124 Ward Rd</u>		
Address:	City:	<u>Salyersville</u>	County:	<u>Magoffin</u>
			Zip Code:	<u>41465</u>
Mailing Address:	Street or P.O. Box:	<u>Same as above</u>		
	City:	State:	Zip Code:	

Standard Coordinates for Source Physical Location

Longitude: -83.061111 (decimal degrees) Latitude: 37.743889 (decimal degrees)

Primary (NAICS) Category: Machinery Manufacturing Primary NAICS #: 336211

Classification (SIC) Category:		Truck and Bus Bodies		Primary SIC #:		3713	
Briefly discuss the type of business conducted at this site:		Logan Corporation, Inc. is in the motor vehicle body manufacturing industry making and refurbishing custom dump truck beds.					
Description of Area Surrounding Source:	<input checked="" type="checkbox"/> Rural Area	<input type="checkbox"/> Industrial Park	<input type="checkbox"/> Residential Area	Is any part of the source located on federal land?	<input type="checkbox"/> Yes	Number of Employees:	95
	<input type="checkbox"/> Urban Area	<input type="checkbox"/> Industrial Area	<input type="checkbox"/> Commercial Area		<input checked="" type="checkbox"/> No		
Approximate distance to nearest residence or commercial property:		Property Area:		Is this source portable?			
850ft		12.5 acres		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?							
NPDES/KPDES:	<input checked="" type="checkbox"/> Currently Hold	<input type="checkbox"/> Need	<input type="checkbox"/> N/A				
Solid Waste:	<input type="checkbox"/> Currently Hold	<input type="checkbox"/> Need	<input checked="" type="checkbox"/> N/A				
RCRA:	<input checked="" type="checkbox"/> Currently Hold	<input type="checkbox"/> Need	<input type="checkbox"/> N/A				
UST:	<input type="checkbox"/> Currently Hold	<input type="checkbox"/> Need	<input checked="" type="checkbox"/> N/A				
Type of Regulated Waste Activity:	<input type="checkbox"/> Mixed Waste Generator	<input checked="" type="checkbox"/> Generator	<input type="checkbox"/> Recycler	<input type="checkbox"/> Other: _____			
	<input type="checkbox"/> U.S. Importer of Hazardous Waste	<input type="checkbox"/> Transporter	<input type="checkbox"/> Treatment/Storage/Disposal Facility	<input type="checkbox"/> N/A			

Section A1.2: Applicant Information

Applicant Name: Logan Corporation Inc

Title: (if individual) _____

Mailing Address: **Street or P.O. Box:** 124 Ward Rd.

City: Salyersville **State:** KY **Zip Code:** 41465

Email: (if individual) Randy.Risner@logancorp.com

Phone: 606-791-4532

Technical Contact

Name: Allison Hall

Title: Environmental Scientist Advisor

Mailing Address: **Street or P.O. Box:** 300 Sower Blvd.

City: Frankfort **State:** KY **Zip Code:** 40601

Email: allison.hall@ky.gov

Phone: 502-782-8099

Air Permit Contact for Source

Name: Randy Risner

Title: Vice President

Mailing Address: **Street or P.O. Box:** 124 Ward Rd.

City: Salyersville **State:** KY **Zip Code:** 41465

Email: Randy.Risner@logancorp.com

Phone: 606-791-4532

Section AI.3: Owner Information

Owner same as applicant

Name: _____

Title: _____

Mailing Address: **Street or P.O. Box:** _____
City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

List names of owners and officers of the company who have an interest in the company of 5% or more.

Name	Position
Clarence England	CEO
_____	_____
_____	_____
_____	_____

Section AI.4: Type of Application

Current Status: Title V Conditional Major State-Origin General Permit Registration None

Requested Action: Name Change Initial Registration Significant Revision Administrative Permit Amendment
(check all that apply) Renewal Permit Revised Registration Minor Revision Initial Source-wide Operating Permit
 502(b)(10)Change Extension Request Addition of New Facility Portable Plant Relocation Notice
 Revision Off Permit Change Landfill Alternate Compliance Submittal Modification of Existing Facilities
 Ownership Change Closure

Requested Status: Title V Conditional Major State-Origin PSD NSR Other: _____

Is the source requesting a limitation of potential emissions? Yes No

<p>Pollutant: Requested Limit:</p> <p><input type="checkbox"/> Particulate Matter _____</p> <p><input checked="" type="checkbox"/> Volatile Organic Compounds (VOC) <u>90 tons/yr</u></p> <p><input type="checkbox"/> Carbon Monoxide _____</p> <p><input type="checkbox"/> Nitrogen Oxides _____</p> <p><input type="checkbox"/> Sulfur Dioxide _____</p> <p><input type="checkbox"/> Lead _____</p>	<p>Pollutant: Requested Limit:</p> <p><input checked="" type="checkbox"/> Single HAP <u>9 tons/yr</u></p> <p><input checked="" type="checkbox"/> Combined HAPs <u>22.5 ton/syr</u></p> <p><input type="checkbox"/> Air Toxics (40 CFR 68, Subpart F) _____</p> <p><input type="checkbox"/> Carbon Dioxide _____</p> <p><input type="checkbox"/> Greenhouse Gases (GHG) _____</p> <p><input type="checkbox"/> Other _____</p>
--	---

For New Construction:

Proposed Start Date of Construction: Existing **Proposed Operation Start-Up Date:** *(MM/YYYY)* Existing

(MM/YYYY)

For Modifications:

Proposed Start Date of Modification: 04/2021 **Proposed Operation Start-Up Date:** *(MM/YYYY)* 04/2021

(MM/YYYY)

Applicant is seeking coverage under a permit shield. Yes No **Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.**

Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

- | | |
|--|--|
| <input type="checkbox"/> DEP7007A Indirect Heat Exchangers and Turbines | <input type="checkbox"/> DEP7007CC Compliance Certification |
| <input type="checkbox"/> DEP7007B Manufacturing or Processing Operations | <input checked="" type="checkbox"/> DEP7007DD Insignificant Activities |
| <input type="checkbox"/> DEP7007C Incinerators and Waste Burners | <input type="checkbox"/> DEP7007EE Internal Combustion Engines |
| <input type="checkbox"/> DEP7007F Episode Standby Plan | <input type="checkbox"/> DEP7007FF Secondary Aluminum Processing |
| <input type="checkbox"/> DEP7007J Volatile Liquid Storage | <input checked="" type="checkbox"/> DEP7007GG Control Equipment |
| <input type="checkbox"/> DEP7007K Surface Coating or Printing Operations | <input type="checkbox"/> DEP7007HH Haul Roads |
| <input type="checkbox"/> DEP7007L Mineral Processes | <input type="checkbox"/> Confidentiality Claim |
| <input type="checkbox"/> DEP7007M Metal Cleaning Degreasers | <input type="checkbox"/> Ownership Change Form |
| <input checked="" type="checkbox"/> DEP7007N Source Emissions Profile | <input type="checkbox"/> Secretary of State Certificate |
| <input type="checkbox"/> DEP7007P Perchloroethylene Dry Cleaning Systems | <input type="checkbox"/> Flowcharts or diagrams depicting process |
| <input type="checkbox"/> DEP7007R Emission Offset Credit | <input type="checkbox"/> Digital Line Graphs (DLG) files of buildings, roads, etc. |
| <input type="checkbox"/> DEP7007S Service Stations | <input type="checkbox"/> Site Map |
| <input type="checkbox"/> DEP7007T Metal Plating and Surface Treatment Operations | <input type="checkbox"/> Map or drawing depicting location of facility |
| <input type="checkbox"/> DEP7007V Applicable Requirements and Compliance Activities | <input type="checkbox"/> Safety Data Sheet (SDS) |
| <input type="checkbox"/> DEP7007Y Good Engineering Practice and Stack Height Determination | <input type="checkbox"/> Emergency Response Plan |
| <input type="checkbox"/> DEP7007AA Compliance Schedule for Non-complying Emission Units | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> DEP7007BB Certified Progress Report | |

Section AI.6: Signature Block

I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.

Randy Risner
Authorized Signature

1-10-24
Date

Randy Risner
Type or Printed Name of Signatory

Vice President
Title of Signatory

*Responsible official as defined by 401 KAR 52:001.

Section AI.7: Notes, Comments, and Explanations

Division for Air Quality
 300 Sower Boulevard
 Frankfort, KY 40601
 (502) 564-3999

DEP7007N

Source Emissions Profile

- Section N.1: Emission Summary
- Section N.2: Stack Information
- Section N.3: Fugitive Information
- Section N.4: Notes, Comments, and Explanations

Additional Documentation
 Complete DEP7007AI

Source Name: Logan Corporation, Inc
 KY EIS (AFS) #: 21- 153-00031
 Permit #: F-18-061
 Agency Interest (AI) ID: 2870
 Date: 12/5/2023

N.1: Emission Summary

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity (SCC Units/hour)	Pollutant	Uncontrolled Emission Factor (lb/SCC Units)	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency (%)	Control Efficiency (%)	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
IA06	Abrasive Blasting	N/A	N/A	Dust Collector	1	1	1.54.E-03 ton/hr	PM	18.20 lb/ton	AP-42 Chapter 13.2.6	100.00%	98.00%	2.80E-02	5.60E-04	1.23E-01	2.45E-03
								PM10	2.60 lb/ton	AP-42 Chapter 13.2.6	100.00%	98.00%	4.00E-03	8.00E-05	1.75E-02	3.50E-04
								Manganese	2.18E-01 lb/ton	HAPs SDS% by weight	100.00%	98.00%	3.36E-04	6.72E-06	1.47E-03	2.94E-05
								Nickel	3.64E-02 lb/ton	HAPs SDS% by weight	100.00%	98.00%	5.60E-05	1.12E-06	2.45E-04	4.91E-06

Section N.2: Stack Information

UTM Zone:

Stack ID	Identify all Emission Units (with Process ID) and Control Devices that Feed to Stack	Stack Physical Data			Stack UTM Coordinates		Stack Gas Stream Data		
		Equivalent Diameter <i>(ft)</i>	Height <i>(ft)</i>	Base Elevation <i>(ft)</i>	Northing <i>(m)</i>	Easting <i>(m)</i>	Flowrate <i>(acfm)</i>	Temperature <i>(°F)</i>	Exit Velocity <i>(ft/sec)</i>
1	Connected to Dust Collector; IA06 Abrasive Blasting	1.85	18.4	854	4179523.325	318380.747	8800 cfm	Ambient	Unknown

Section N.3: Fugitive Information

UTM Zone:

Emission Unit #	Emission Unit Name	Process ID	Area Physical Data		Area UTM Coordinates		Area Release Data	
			Length of the X Side <i>(ft)</i>	Length of the Y Side <i>(ft)</i>	Northing <i>(m)</i>	Easting <i>(m)</i>	Release Temperature <i>(°F)</i>	Release Height <i>(ft)</i>
N/A								

Section N.4: Notes, Comments, and Explanations
Stack- The cleaned air from the dust collector is exhausted through the fan outlet vent to the atmosphere.

Division for Air Quality
 300 Sower Boulevard
 Frankfort, KY 40601
 (502) 564-3999

DEP7007DD

Insignificant Activities

- ___ Section DD.1: Table of Insignificant Activities
- ___ Section DD.2: Signature Block
- ___ Section DD.3: Notes, Comments, and Explanations

Source Name: Logan Corp

KY EIS (AFS) #: 21- 153-00031

Permit #: F-18-061

Agency Interest (AI) ID: 2870

Date: 12/5/2023

Section DD.1: Table of Insignificant Activities

*Identify each activity with a unique Insignificant Activity number (IA #); for example: 1, 2, 3... etc.

Insignificant Activity #	Description of Activity including Rated Capacity	Serial Number or Other Unique Identifier	Applicable Regulation(s)	Calculated Emissions
IA06	Abrasive blasting using steel shot - Max capacity: 1.54E-3 tons/hr	SN #601607	401 KAR 59:010;401 KAR 63:020	Controlled PM:2.45E-03 tons/yr
				Controlled PM10: 3.50E-04 tons/yr
				Controlled Manganese: 2.94E-05 tons/yr
				Controlled Nickel: 4.91E-06 tons/yr

Insignificant Activity #	Description of Activity including Rated Capacity	Serial Number or Other Unique Identifier	Applicable Regulation(s)	Calculated Emissions

Section DD.2: Signature Block

I, THE UNDERSIGNED, HEREBY CERTIFY UNDER PENALTY OF LAW, THAT I AM A RESPONSIBLE OFFICIAL, AND THAT I HAVE PERSONALLY EXAMINED, AND AM FAMILIAR WITH, THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ITS ATTACHMENTS. BASED ON MY INQUIRY OF THOSE INDIVIDUALS WITH PRIMARY RESPONSIBILITY FOR OBTAINING THE INFORMATION, I CERTIFY THAT THE INFORMATION IS ON KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE OR INCOMPLETE INFORMATION, INCLUDING THE POSSIBILITY OF FINE OR IMPRISONMENT.

By: *Randy Risner* 1-10-24
 Authorized Signature Date
Randy Risner Vice President
 Type/Print Name of Signatory Title of Signatory

Section DD.3: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007GG

Control Equipment

Additional Documentation

- Complete Sections GG.1 through GG.12, as applicable
- Attach manufacturer's specifications for each control device
- Complete DEP7007AI

Source Name: Logan Corporation, Inc

KY EIS (AFS) #: 21- 153-00031

Permit #: F-18-061

Agency Interest (AI) ID: 2870

Date: 12/5/2023

Section GG.1: General Information - Control Equipment

Control Device ID #	Control Device Name	Cost	Manufacturer	Model Name/ Serial #	Date Installed	Inlet Gas Stream Data For <u>All</u> Control Devices					Inlet Gas Stream Data For Condensers, Adsorbers, Afterburners, Incinerators, Oxidizers <u>Only</u>			Equipment Operational Data For <u>All</u> Control Devices		
						Temperature (^o F)	Flowrate (scfm @ 68 ^o F)	Average Particle Diameter (μ m)	Particle Density (lb/ft ³) or Specific Gravity	Gas Density (lb/ft ³)	Gas Moisture Content (%)	Gas Composition	Fan Type	Pressure Drop Range (in. H ₂ O)	Pollutants Collected/ Controlled	Pollutant Removal (%)
1	Dust Collector	Unknown	Camfil	Gold Series- 20	Apr-21	Ambient	8800 cfm	Unknown	Unknown	Unknown	N/A	N/A	N/A	Unknown	PM,PM10, Manganese, Nickel	98.00

Section GG.6: Filter														
Control Device ID #	Identify all Emission Units and Control Devices that Feed to Filter	Identify Type of Filter Unit: Baghouse, Cartridge Collector, or Other (specify)	Identify Type of Filtering Material: Fabric, Paper, Synthetic, or Other (specify)	Total Filter Area (ft ²)	Effective Air-to-Filter Ratio (acfm/ft ²)	Continuous Monitoring Instrumentation (e.g. COMS, BLDS, none)	Additional Materials Introduced into the Control System (e.g. lime, carbon)		Identify Cleaning Method: Shaker, Pulse Air, Reverse Air, Pulse Jet, or Other (specify)	Identify Gas Cooling Method: Ductwork, Heat Exchanger, Bleed-in Air, Water Spray, or Other (specify)	For Ductwork:		For Bleed-in Air:	For Water Spray:
							Material	Injection Rate (lb/hr)			Length (ft)	Diameter (ft)	Flowrate (scfm @ 68°F)	Flowrate (gal/min)
1	IA06	Collector	Cellulose	1968	4.47	None	None Known	N/A	Pulse Air	Unknown	N/A	N/A	N/A	N/A

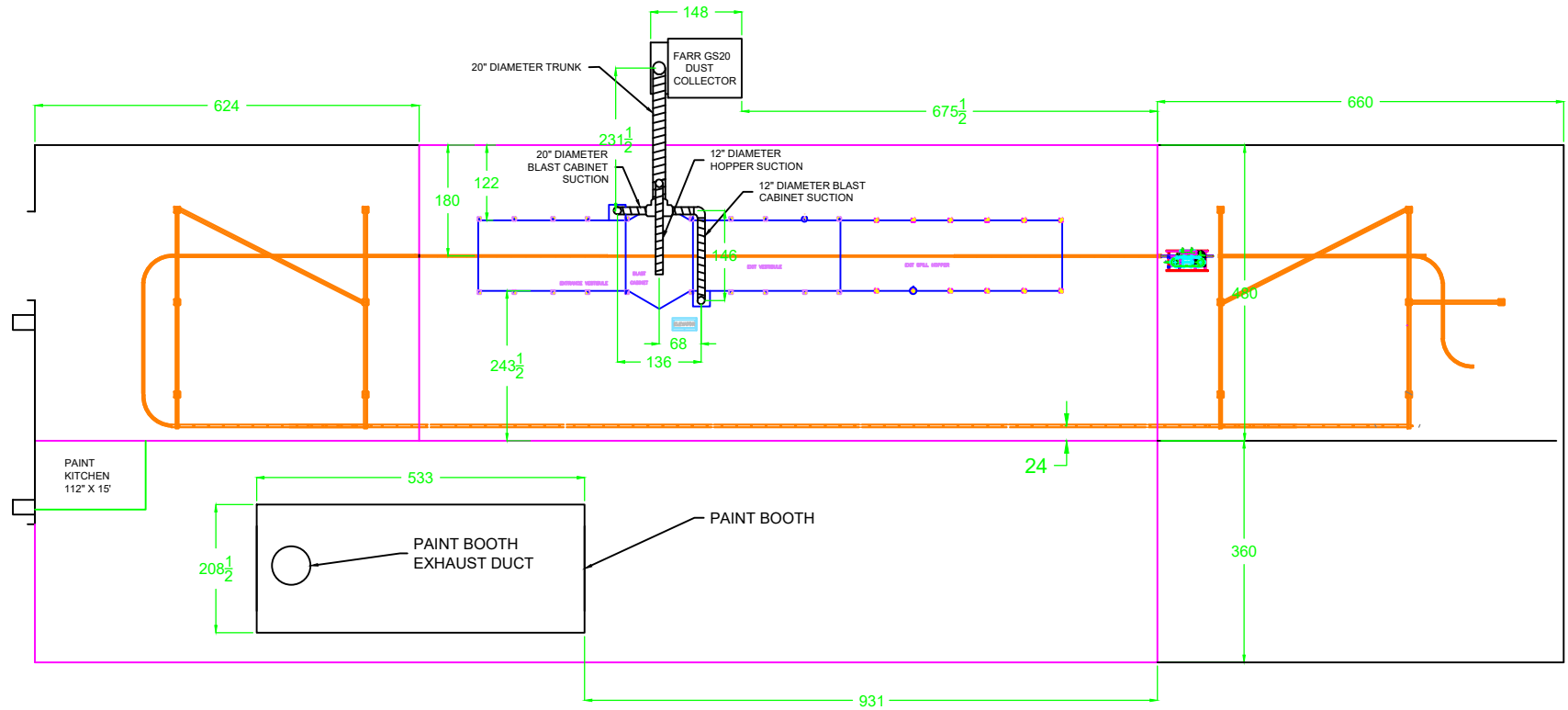
Name: Logan Corporation, Inc.		AI # 2870											
Identification	Description	Material	Throughput	Units	Hours	Pollutant	EF	Units	Control	Uncontrolled	Controlled	Uncontrolled	Controlled
										lb/hr	TPY	lb/hr	TPY
Name	Insignificant Activity - Abrasive Blasting												
EIS Point	IA06	Steel Shot	1.54E-03	ton/hr	8760	PM	18.20	lb/ton	98.00%	2.80E-02	1.23E-01	5.60E-04	2.45E-03
SCC	3-09-002-07					PM ₁₀	2.60	lb/ton	98.00%	4.00E-03	1.75E-02	8.00E-05	3.50E-04
Reg	401 KAR 59:010;401 KAR 63:020					Manganese	2.18E-01	lb/ton	98.00%	3.36E-04	1.47E-03	6.72E-06	2.94E-05
Stack #	1					Nickel	3.64E-02	lb/ton	98.00%	5.60E-05	2.45E-04	1.12E-06	4.91E-06
Height	18'5"	Steel Shot Usage Yearly	4.00	ton/yr									
Diameter	23.5"												
Flowrate	8800 cfm	Actual Working Hours Yearly	2600	hours									
Temp	Ambient												
Date	April 2021 Installation												
Control	Dust Collector 98.00%												
EF Reference	AP-42 Chapter 13.2.6; HAPs SDS% by weight												
Notes:	Wheelabrator Blast Cabinet												

Abrasive Blasting Pollutants

Product	Manufacturer	Density	Manganese	Nickel
		lb/ft3	%	%
Amasteel- Steel Shot	Ervin	487	1.20%	0.20%

Facility-wide Emissions

Pollutant	Uncontrolled (TPY)	Controlled (TPY)
PM	1.23E-01	2.45E-03
PM ₁₀	1.75E-02	3.50E-04
Manganese	1.47E-03	2.94E-05
Nickel	2.45E-04	4.91E-06
Total HAPs	1.72E-03	3.43E-05



REV	DESCRIPTION	BY:	DATE
REVISIONS			

TOLERANCES UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES .x/x = ± 1/16 .x = ± .030 .xx = ± .020 .xxx = ± .010 .xxxx = ± .005 ANGLE = ± 1/2° CONCENTRICITY = .010 TIR SURFACE = 125√		MATERIAL NOTE	
FINISH NOTE		TITLE DUST COLLECTOR AND PAINT BOOTH LAYOUT	
SCALE N/S	DRAWN BY	APPROVED BY	DATE 3/18/21
CUSTOMER ITEM NUMBER:		LOGAN ITEM NUMBER	
DRAWING NO. N/A		SHEET 1/1	REV N/A



Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2023

Reviewed on 05/11/2022

1 Identification

Product identifier**Trade name:** AMASTEEL**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Ervin Industries, Inc.
3893 Research Park Drive
Ann Arbor, MI 48108-2217
Phone: (734)-769-4600/Fax: (734)-663-0136
sales@ervinindustries.com
http://www.ervinindustries.com

Information department:

Quality Assurance Department
(mo-thu: 8 a.m.-4 p.m., fr: 8 a.m. - 1 p.m.)

Emergency telephone number: Phone: (734)-769-4600/Fax: (734)-663-0136**EUPCS:** PC-TEC-12

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements**GHS label elements** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures**Description:** Mixture: consisting of the following components.**Dangerous components:**

7440-44-0	carbon	0.80-1.20%
7439-96-5	manganese	0.35-1.20%
7440-21-3	silicon	0.40-1.50%
7704-34-9	sulfur	<0.05%
7440-02-0	Nickel	<0.2%

(Contd. on page 2)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2023

Reviewed on 05/11/2022

Trade name: Amasteel

(Contd. of page 1)

7723-14-0 | red phosphorus

<0.05%

4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Rinse with warm water.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

Consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO₂, sand, extinguishing powder. Do not use water.

Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: Water

Special hazards arising from the substance or mixture

Product is not flammable.

Fine metal dust removed as a waste stream and / or contamination during the blasting process,

poses a small minor risk of causing a fire or explosion.

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Scrap and debris can cause slip and fall hazards. It is recommended that floors and work areas be kept clean at all times.

floors and work areas clean at all times.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up: Pick up mechanically.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

None

None

(Contd. on page 3)

— US —

Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2023

Reviewed on 05/11/2022

Trade name: Amasteel

(Contd. of page 2)

Protective Action Criteria for Chemicals

PAC-1:		
7439-96-5	manganese	3 mg/m ³
7440-21-3	silicon	45 mg/m ³
7440-44-0	carbon	6 mg/m ³
7723-14-0	red phosphorus	0.27 mg/m ³
7440-02-0	Nickel	6 mg/m ³
PAC-2:		
7439-96-5	manganese	5 mg/m ³
7440-21-3	silicon	100 mg/m ³
7440-44-0	carbon	330 mg/m ³
7723-14-0	red phosphorus	3 mg/m ³
7440-02-0	Nickel	330 mg/m ³
PAC-3:		
7439-96-5	manganese	1,800 mg/m ³
7440-21-3	silicon	630 mg/m ³
7440-44-0	carbon	2,000 mg/m ³
7723-14-0	red phosphorus	18 mg/m ³
7440-02-0	Nickel	2,000 mg/m ³

7 Handling and storage

Handling:

Precautions for safe handling

Take special care to prevent the product from leaking. Exercise special care when removing the tie-down straps that are part of the bulk pallet shipments.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Storage class: 13

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

(Contd. on page 4)
US

Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2023

Reviewed on 05/11/2022

Trade name: Amasteel

(Contd. of page 3)

7439-96-5 manganese	
PEL	Ceiling limit value: 5 mg/m ³ as Mn
REL	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ fume, as Mn
TLV	Long-term value: 0.02* 0.1** mg/m ³ as Mn; A4, *respirable **inhalable fraction
7440-21-3 silicon	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (TLV)

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.
Filter P2

Protection of hands: Leather gloves

Material of gloves Recommended thickness of the material: ≥ - mm

Penetration time of glove material Value for the permeation: Level ≤ -

Eye protection: Safety glasses

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Solid
Odor:	Odorless
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	1500 °C (2,732 °F) (~2700 °F)
Boiling point/Boiling range:	3000 °C (5,432 °F) (~5400 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2023

Reviewed on 05/11/2022

Trade name: Amasteel

(Contd. of page 4)

Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density at 20 °C (68 °F):	7.8 g/cm ³ (65.09 lbs/gal)
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient (n-octanol/water): Not determined.	
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
VOC content:	0.00 %
Solids content:	100.0 %
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

 on the skin: No irritant effect.

 on the eye: No irritating effect.

Sensitization:

Examination nickel release in accordance with DIN EN 1811: 2012-10: done

Sample Number 2016-00916

<0.1 µg per cm² and week

therefore no sensitization detected

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

IARC (International Agency for Research on Cancer)	
7440-02-0 Nickel	1

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2023

Reviewed on 05/11/2022

Trade name: Amasteel

(Contd. of page 5)

NTP (National Toxicology Program)	
7440-02-0 Nickel	R
OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes: Not hazardous for water.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

13 Disposal considerations

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

completely emptied packaging in 25kg paper bag: paper recycling

completely emptied packaging in big bags: commercial waste disposal

completely emptied packaging in steel barrels: metal recycling

14 Transport information

UN-Number DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group DOT, ADR, IMDG, IATA	Void
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

(Contd. on page 7)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2023

Reviewed on 05/11/2022

Trade name: Amasteel

(Contd. of page 6)

UN "Model Regulation":	Void
------------------------	------

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Sara

Section 355 (extremely hazardous substances):

7723-14-0	red phosphorus
-----------	----------------

Section 313 (Specific toxic chemical listings):

7439-96-5	manganese
-----------	-----------

7723-14-0	red phosphorus
-----------	----------------

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

7439-96-5	manganese
-----------	-----------

7723-14-0	red phosphorus
-----------	----------------

Proposition 65

Warning: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Chemicals known to cause cancer:

7440-02-0	Nickel
-----------	--------

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

7439-96-5	manganese	D
-----------	-----------	---

7723-14-0	red phosphorus	D
-----------	----------------	---

TLV (Threshold Limit Value)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements Void
Hazard pictograms Void
Signal word Void
Hazard statements Void

National regulations:

Information about limitation of use: Employment restrictions concerning young persons must be observed.

Water hazard class: Generally not hazardous for water.

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/15/2023

Reviewed on 05/11/2022

Trade name: Amasteel

(Contd. of page 7)

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Motivo da mudança:

Version 2: 28.05.2015: Section 5.1 Extinguishing agents; 8.1 AGW measuring method.

Version 3: 06.09.2015: Section 1, 15, adaptation to the regulation 453/2015/EC, 830/2015/EU, 18/2012/EU

Version 4: 05.03.2016: Section 1.3

Version 5: 19.06.2016: Section 13

Version 6: 07.06.2019: Section 3, 8

Version 7: 16.02.2020: Section 13

Version 8: 18.02.2021: Section 1, 13, 15

Version 9: 11.05.2022: Section 2, 8, 15

Contact: Dr. W. Assmann**Date of preparation / last revision** 01/15/2023**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

*** Data compared to the previous version altered. Amasteel**

Safety Data Sheet: AMASTEEL

Home > Dust & Fume Extraction Equipment>Dry Dust Filters >

Camfil Farr Gold Series GS 20 Dust Extractor



Stock Code: EB1931S

Manufacturer: Camfil Farr

Model: GS 20

Year of Manufacture: 2014

Serial: 301682

New or Used: Used (Second Hand)

Approx Duty CFM / M³/Hr : 8,800 CFM //15,000m³hr

Filter Area ft² / m²: 5950 // 600

Other Info: ATEX Rated, 22kW Roof Mounted Fan

Weight: 2722

External Dimensions (WxDxH): 2,283 x 3,293 x 4,363

Camfil Farr Gold Series 20 Cartridge Dust Extractor

The ATEX-classified Camfil APC Dust Collector is designed for collecting and filtering explosive and non-explosive dry dust.

The Gold Series® industrial dust collector rids work environments of hazardous and nuisance dust and fumes/smoke with the smallest floor space of any collector available today. Heavy-duty carbon steel construction and thermal cured powder coatings provide unparalleled strength and durability.

Home > Dust & Fume Extraction Equipment Dry Dust Filters >

Camfil Farr Gold Series GS 20 Dust Extractor

Technical Detail

EX rating: II 2/3 DGX (Atex)
Maximum Temperature: 90°C
Filter Area: 600m² // 1968ft²
Filter Cartridge: PolyTech 30 m²
Filter Material: Cellulose
Operating Temperature: - 20 °C to + 40 °C
Process Air (Dry) Temperature: 0 °C to +70 °C (+90 °C depending on filter media)
Solenoids: 10 off
Environment Classes: C3 according to EN ISO 12944
Compressed Air Requirements: See page 22 (Installation & operation guide attached)
Compressed Air Connection: Minimum 1" (R25)
Protection Class: IP 65 (for Camfil APC Control System)*
Relay Voltage, Option: 24 V AC
Working Pressure: 0 kPa to - 10 kPa
Sound Power: 1", 1,5" valves. 9,2 B, 9,4 DB

Atex Equipment category 2 D/G: applicable to the interior of the product 3 D/G X: applicable to the exterior of the product Marking. EX II 2/3 D/G T2 90 °C

Definitions

m³/h

Actual m³ of gas per hour. The volume of gas flowing per hour at the operating temperature, pressure, elevation and composition.

Air-to-Cloth Ratio The ratio between air flowing through a dust collector and the m² of filter area available (m³/m² h). Sometimes referred to as the velocity (m/h) of air through the cloth.

Blinding

Blockage in a fabric or media by dust that cannot be discharged by the cleaning mechanism, resulting in a reduced gas flow and an increased pressure drop across the media. Once enough material has built up, airflow is severely restricted and the bags have to be cleaned or replaced.

Bridging

Material handling problem characterized by the particulate forming a cavity over the discharge or opening of a hopper or storage vessel. Also, the accumulation of collected dust between two or more filter elements.

Clean Air Plenum

The dust collector area, through which gases are directed, located on the clean side of the filter media.

Collection Efficiency

The measure of a dust collector's ability to remove particulate from the inlet gas, typically expressed in percent or emission rate (mg per cubic meter).

Home > Dust & Fume Extraction Equipment Dry Dust Filters >

Camfil Farr Gold Series GS 20 Dust Extractor

Dew Point

The temperature at which condensation begins to form as the gas is cooled.

Differential Pressure

The change in pressure or the pressure drop across a device. The difference between static pressures measured at the inlet and outlet of a device,

Ref. Pressure Drop.

Dust Cake

A dust build-up on the filter elements that increases the efficiency of the filter media.

Diaphragm Valve

A compressed air valve operated by a solenoid valve that opens to allow a pulse to a row of filters.

Dust Loading

The weight of solid particulate suspended in an air stream, usually expressed in mg per cubic meter.

Emissions

Particulate that escapes through or around a dust collector into the atmosphere.

Negative Pressure System

A system where the fan is located after the dust collector on the clean air side, pulling air through the system.

Positive Pressure System

A system with a fan located prior to a dust collector on the dirty side, pushing air through the system.

Precoat

Material added to the air stream at start-up to aid in establishing the initial dust cake on the filter media.

Rotary Airlock Valve

Device having a star wheel (rotor) designed to provide an air tight seal between the negative or positive pressures of the collector and the outside atmosphere.

Screw Conveyor

A revolving screw operating in a fixed trough for conveying material from one point to another.

Pulse Duration (On-Time)

The length of time a pulse lasts, generally described as the length of time the electric signal holds the solenoid pilot valve open (fixed at 150m/s).

Pause Time (Off-Time)

Elapsed time between pulses in a dust collector cleaning system.

Solenoid Valve

An electromechanical plunger device that is either "normally open" or "normally closed". In use with a dust collector, it is for the relief of air pressure to activate a compressed air device such as a diaphragm valve.



Home > Dust & Fume Extraction Equipment Dry Dust Filters >

Camfil Farr Gold Series GS 20 Dust Extractor

Tube Sheet

A steel plate on which the open end of the filter elements are connected. This wall separates the clean air and dirty air plenums of the dust collector.

View Camfil Farr Gold Series GS 20 Dust Extractor on our web site at
<https://www.rileysurfaceworld.co.uk/machines/30947.htm>

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.