

**GILES CHEMICAL ~ PREMIER MAGNESIA****Company Form**Title: **Acid Car History Log**Number: **P12-PR-200-F007**Owner: **Jason Bumgarner**Revision: **03**Effective Date: **07/07/2016**Page: **1 of 2**

Acid Railcar #: _____ Date / Time Spotted: _____
Seal #: _____ Unloading into tank #: _____ 1 / 2

WARNING: SULFURIC ACID REACTS VIOLENTLY WITH WATER AND CAN CAUSE SEVERE IRRITATION AND BURNS TO SKIN, ENSURE THAT ALL PPE IS DONNED PROPERLY!!!!!!

Prior to Hooking-up the Railcar**Initials**

Secured the parking brake and chocked the wheels _____
Raised the blue sign and locked the derail _____
Ensured the storage tank had enough room to accommodate the contents of the railcar _____
Ensured storage tank to be filled does not have pressure on it _____
Checked all ports on the storage tank and ensured that they were secure _____
Ensured the tank car is labeled Sulfuric Acid and all placards were in place _____
Donned all PPE properly _____
Removed the seal and recorded the number above _____
Removed the air inlet plug and bled the pressure off the railcar _____
Removed the educator cap and obtained a sample _____

Hooking-up the Railcar**Initials**

Checked unloading hose and fittings for wear _____
Checked the gasket in the quick coupling (*replaced if necessary*) _____
Checked the bolts on the load flange and ensured that they were tight _____
Applied Teflon tape to the discharge port and connected the proper discharge pipe (*Christmas Tree*) _____
Connected the discharge hose to the discharge pipe and ensured the cam-locks were locked _____
Connected the small air line to the acid shut off valve actuator _____
Connected the air inlet pipe to the air inlet port _____
Attached the air hose to the air inlet pipe and ensured that the bleed off valve was closed _____

Unloading the Railcar**Initials**

Checked acid transfer line at storage tank to ensure acid is going to correct tank _____
Opened air supply valve to pressurize car (*20 psi preferred, never more than 30 psi*) _____
Checked acid unloading hose and ensured acid was present before starting the acid pump _____

Date / Time started dumping: _____ / _____ ~ _____

Wore PPE pants and boots during the entire unloading process _____

Checked the car, hoses, fittings and pump every 15 minutes until the car was finished dumping _____

Auditable alarm sounded indicating that the railcar was empty and ready to unhook _____

Date / Time finished dumping: _____ / _____ ~ _____**Unhooking the Railcar****Initials**

Donned all PPE properly _____

Lifted unloading hose to ensure the hose was empty and not still full of acid _____

Closed air supply valve _____

Depressurized the car by opening the bleed off valve _____

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Disconnected the air hose from the air inlet pipe, replaced hose plug, and placed it back in the rack _____

Disconnected the acid discharge hose, replaced hose plug, and placed it back in the rack _____

Closed the small air line and opened the dump valve _____

Removed the small air line from the valve actuator _____

Removed the discharge pipe (*Christmas Tree*) _____

Opened the hatch cover and looked into the railcar to ensure it was empty _____

Date / Time Unhooked: _____ / _____ ~ _____**Preparing the Railcar for Release to Railroad****Initials**Inspected the hatch cover gasket (*replaced if necessary*) _____

Closed the hatch cover and wrench tightened all bolts _____

Replaced the educator cap and wrench tightened _____

Ensured the chain was attached to educator cap _____

Closed the air inlet valve _____

Replaced the air inlet plug and wrench tightened _____

Ensured the chain was attached to the air inlet plug and valve handle _____

Ensured the rupture disk assembly was intact and replaced the cover _____

Applied a return seal to the hatch cover _____

Empty / Return Seal #: _____ ~ _____

Removed all tools from the top of the railcar, rinsed and stored them properly _____

Pulled the walkway in and raised the hoop _____

Checked the drip pan with pH paper (*if it had liquid in it*) _____

If liquid was water, squeegeed out the drip pan _____

Ensured all components of the rail car were in good condition (*bolts, handrails, platforms, etc.*) _____Ensured all placards were in good condition (*replaced if necessary*) _____

Confirmed the railcar lining inspection date is not expired _____

Lining Inspection Due Date: _____ ~ _____Removed the wheel chock (*blue sign lowered and derail unlocked when railroad arrived*) _____Problems with car: _____

_____***"I have physically checked this railcar and placards. I declare it empty and ready to return."***_____
*Material Handler's Signature*_____
Date

Production's Initials: _____

Quality's Initials: _____

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