Chemistry Report for Case # P-19-0170

General

Submitter:				
Contact:	Contact Telephone No.:			
TS No.: 09MP9S				
Chemist: Schechter, K.	Contractor Support: Y			
PV Init (kg/yr):	PV Max (kg/yr):			
Binding Option:	Exposure-Based Review:			
Manufacture: ✓	Import:			
CAS Number:				
Chemical Name				
Trade Name:				
IES Order:				
Generic Name:Heteroatom-substituted alkyl triethoxysilane, reaction products with methylated formaldehyde-melamine polymer				
Chemical Structure				



Physical Chemical Properties

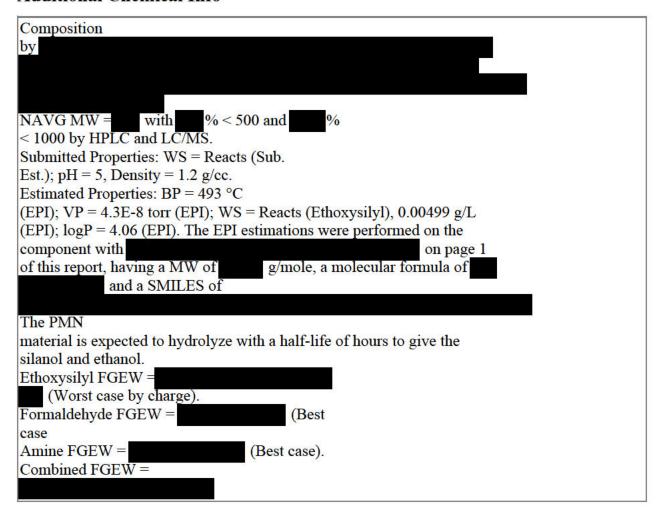
Molecular Weight: Molecular Formula: **%** < 500: % < 1000: MP: MP Estimate: BP: **BP Pressure: BP Estimate:>400 VP Estimate (Torr):**<0.000001 VP (Torr): Water Solubility (g/L): Water Soluble Estimate (g/L):Reacts Log P: Log P Estimate: Physical State — Neat:Liquid Physical State — Manuf: Solution: % PMN material with (Sub. residual feedstock Est.)

Physical State — Processing: Solution: % PMN material in

elastomer formulation

Physical State — End Use: Destroyed

Additional Chemical Info



Uses

Consumer Use	? No
Use:	Intended Use: Coupling agent in elastomer-based formulations that will be used in molding operations to manufacture different types of rubber articles, including but not limited to rubber tires. Ethoxysilyl FGEW = (Worst case by charge). Formaldehyde FGEW = (Best case). Amine FGEW = (Best case). Combined FGEW = (Best case). Analogues (same use): None. Patents (same use):
Other Uses:	Analogues (other use): Analogu

Analogues (same use and other use): None.
Patents (other use): None.

Reaction Description



Pollution Prevention Analysis(P2 Analysis:)

P2

Claim:

The NCS is developed for silica-filled natural rubber based truck tread formulations as an additive that enables the formulation to match or improve on the wear resistance of traditional carbon black tires while improving the rolling resistance benefits relative to carbon black tires. Both of these qualities, wear resistance and rolling resistance, result in improved gas mileage for vehicles equipped with such tires.

Analogs

Analogues:			

Comments/Telephone Log

Artifact	Update/Upload Time		