



## Ziegler Unit

# FAST FACTS



### LOCATION

Sasol Lake Charles East Plant  
Westlake, Louisiana, USA

### COMMISSIONED

2020

### NAMEPLATE CAPACITY

173,000 tons per year (173 ktpa) alcohol  
27,000 tons per year (27 ktpa) alumina

### FEEDSTOCK

Ethylene and aluminum

### TECHNOLOGY

Sasol (Proprietary)

### PRODUCT FORM

Liquid alcohols and alumina powders

### PROCESS

Ethylene and aluminum are reacted together through a series of reactors yielding a mixture of various molecular weight molecules (aka aluminum alkyls). The resulting product of the Ziegler process is further reacted with oxygen, hydrogen and water in more reactors to produce alcohol and alumina. The alcohol and alumina products are further refined by distillation and drying to create the end products.

### OUTBOUND LOGISTICS

Liquid alcohols and powdered aluminas to be sold to the merchant market are loaded into railcars or trucks and transported either directly to North American customers or loaded into containers and shipped to customers abroad.

### END USES

Sasol Ziegler alcohols are used for both feedstock to Sasol Lake Charles derivative units and sold to customer; Ziegler aluminas are sold to customers. End uses for Ziegler alcohols include detergents, personal care products, cosmetics and fragrances, pharmaceuticals, paint and ink, film, food packaging, oilfield applications, textile additives, cleaners, metal processing, agrochemicals, coatings and adhesives. Aluminas are used as ingredients in catalysts, films, ceramics and abrasives.

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