

FILM STUDY GROUP

~~REPORT~~

T.O.M. REEL NO. 29

Prepared by

STANDARD OIL DEVELOPMENT COMPANY

Comments on Reel #29

Bag 2171

Item 1 - pages 5-108

This article deals with the production of isooctane from isobutane by chlorination, dechlorination, polymerization and hydrogenation.

Item 8 - pages 482-513

Purification of chlorine obtained by oxidation of HCl on p. 482-487. Considerable detail is given on the process for conversion of 20% HCl to chlorine on p. 488-513.

Item 8 - pages 530-532

A furnace used for the production of chlorine from HCl.

Item 8 - pages 534-545

Production of dry HCl.

Item 9 - pages 548-564

Pressure scrubbing with water of ammonia gas, hydrogen and possibly Fischer Tropsch synthesis gas. Information on utilities is available.

Item 110 - pages 639-662

A report on oxidation of paraffin wax to make fatty acids.

Item 130 - pages 669-689

Reports are given on catalytic dehydrogenation of butane and isobutane to give normal butene and isobutylene respectively. Considerable data are given on properties of feed and product, plant layout, cost estimates etc. This information may be of value for comparison with existing processes in the U.S.

Item 180 - pages 736-741

A short article covering the blending of various copanols and the results thereof.

Item 190 - pages 743-746

This report covers the production of chemicals from propane by chlorination and dehydrogenation to make propylene and the Oxo products on the resulting propylene.

Item 200 - pages 748-756

A report is given on the condensation of methylal with synthesis gas to produce largely high boiling glycols with low boiling glycols as by-products.

Item 220 - pages 773-776

Oxidation of methane for preparation of acetylene and synthesis gas and subsequent conversion of acetylene to acetone. Yield data, flow diagrams, cost estimates are included.

Item 230 - pages 778-780

Brief description of production of isoprene from dioxane is given followed by some information on copolymerization of isoprene with vinyl and other compounds. The print is illegible but if of sufficient interest it may be worthwhile to attempt to obtain the original document.

Item 240 - page 783

Flow sheet of normal butane isomerization plant is given.

Item 260 - pages 789-1009

A 220 page article on the high pressure synthesis of ammonia is given.