

# CHEMISTRY

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## CHEMICAL INDUSTRY

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A CHEMICAL INDUSTRY IS ONE THAT USES CHEMISTRY TO MAKE CHEMICALS AND CHEMICAL SUBSTANCES (raw material) OR CHEMICAL INDUSTRY IS THE BUSINESS OF USING CHEMICAL REACTIONS TO TURN RAW MATERIAL SUCH AS COAL, OIL, SALT, INTO VARIETY OF PRODUCT.

### RAW MATERIALS, SOURCES AND THEIR USES

RAW MATERIAL	SOURCES	USES
• FATS AND OIL	OIL PALM, GRANDNUT AND COCONUTS	FOR PRODUCING SOAP, PAINT, MARGARINE, COSMETICS, AND FOR FOOD
• SUGAR	SUGAR	MAKING ALCOHOLIC DRINKS, OR BEVERAGES
• STARCH	CASSAVA, YAM	PRODUCTION OF ETHANOL AS A BINDING AGENT, PRODUCTION OF GLUCOSE.
• CELLULOSE	WOOD	USED IN PAPER INDUSTRY
• IRON	IRON ORE( $Fe_2O_3$ )	USED IN AUTOMOBILE BODIES AS WIRE MESH, CUTTING TOOL IN MAKING STAINLESS CUTLERIES
• ALLUMINIUM	BAUXITE	IN ALLOYS, COOKING UTENSILS, ELECTRIC CABLES, PAINTS etc
• LEADS	LEAD ORE	FOR ROOFING SHEETS, MAKING GAS PIPES, BULLETS, ACCUMULATOR AND ALLOYS

### CLASSES OF INDUSTRIES

- HEAVY CHEMICALS
- FINE CHEMICALS

THESE CLASSIFICATION REST ON THE NATURE AND QUANTITY OF PRODUCT OF THE COMPANY

#### HEAVY CHEMICALS

THESE ARE CHEMICALS WHICH ARE MANUFACTURED IN LARGE QUANTITY. EXAMPLE ARE:  $NaOH$ , CHLORINE,  $H_2SO_4$  ETC

#### FINE CHEMICALS

DRUGS AND CHEMICALS PRODUCED IN RELATIVELY SMALL AMOUNT ARE REFERED TO AS FINE CHEMICALS. THESE ARE PRODUCED TO A VERY HIGH DEGREE OF PURITY

#### NOTE:

AS A RESULT OF INCREASING DEMAND AND CONTINUING INCREASING PRODUCTION SOME FINE CHEMICALS CAN BE HEAVY CHEMICALS

#### IMPORTANCE TO AN INDIVIDUAL

- 1) TOILETRIES LIKE SOAP, SHAMPOO, ARE PERSONAL PRODUCTS THAT WE USE EVERYDAY
- 2) FERTILIZERS AND PESTICIDES AID IN AGRICULTURE AND IMPROVEMENT
- 3) CHEMICALS PLAY A MAJOR ROLE IN OUR FOOD
- 4) DRUGS ARE USED TO CURE ILLNESS AND PREVENT DISEASES

#### IMPORTANCE TO A COUNTRY

- 1) PROVIDES EMPLOYMENT
- 2) PROVIDES EARNINGS FROM FOREIGN TRADE
- 3) IMPROVE THE STANDARD OF LIVING

#### EFFECTS OF INDUSTRIES ON THE ENVIRONMENT

- 1) LAND CONTAMINATION
- 2) WATER POLLUTION
- 3) DISTRIBUTION OF GREEN LAND THEREBY MAKING SPACE FOR NEW INDUSTRIES
- 4) NOISE POLLUTION FROM HEAVY MACHINERIES AND TRANSPORTATION
- 5) EXTREME PRESSURE IN RESOURCES LIKE ELECTRICITY, PETROL, WATER, ALSO ON LAND WHICH ADVERSE AFTER PEOPLE RESIDE NEAR BY

#### SOLUTION TO ENVIRONMENTAL PROBLEMS

- 1) PROPER TREATMENT OF WASTE BEFORE DISPOSAL
- 2) PROSECUTION OF OFFENDERS
- 3) PROTECTION OF THE OZONE LAYER
- 4) FARMERS SHOULD MAXIMIZE THE USE OF INORGANIC FERTILIZERS
- 5) CONSERVATION OF NATURAL/ LOCALLY FOUND CROP VARIETIES