

Unit- 2 Compounds of p-Block Elements

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**Applications**

- Fertilizers
- Detergents
- Food additives

## 5. Oxygen Group (Group 16)

### Oxides of Sulphur ( $\text{SO}_2$ , $\text{SO}_3$ )

**Applications**

- Sulphuric acid manufacture
- Bleaching agent
- Preservatives

### Oxyacids of Sulphur

- $\text{H}_2\text{SO}_4$ ,  $\text{H}_2\text{SO}_3$

**Applications**

- Fertilizers
- Petroleum refining
- Batteries

### Peroxy Acids

**Applications**

- Strong oxidizing agents
- Chemical synthesis

## 6. Halogen Group (Group 17)

### Interhalogen Compounds ( $\text{ClF}_3$ , $\text{IF}_5$ )

**Applications**

- Fluorinating agents
- Nuclear fuel processing

### Polyhalides ( $\text{I}_3^-$ )

**Applications**

- Analytical chemistry

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- Iodine solutions

**Pseudohalides ( $\text{CN}^-$ ,  $\text{SCN}^-$ )**

**Applications**

- Coordination chemistry
- Metallurgy

## **7. Noble Gases (Group 18) – Limited Reactivity**

**Applications**

- Helium: balloons, cryogenics
- Neon: advertising lights
- Argon: welding atmosphere
- Xenon: flash lamps

## **Summary – Importance of P-Block Elements**

- Central to **industrial chemistry**
- Key role in **fertilizers, electronics, medicine, polymers**
- Essential for **life processes** (C, N, O, P, S)