

Safety (MSDS) data for molybdenum (V) chloride



General

Synonyms: molybdenum pentachloride, pentachloromolybdenum

Use:

Molecular formula: MoCl_5

CAS No: 10241-05-1

EINECS No: 233-575-3

Physical data

Appearance: dark blue to black crystals

Melting point: 194 C

Boiling point: 268 C

Vapour density:

Vapour pressure: 1.75 mm Hg at 25 C

Density (g cm^{-3}): 2.93

Flash point:

Explosion limits:

Autoignition temperature:

Water solubility: reacts

Stability

Stable, but moisture and air-sensitive. Contact with water liberates toxic gas. Incompatible with water, strong oxidizing agents.

Toxicology

Corrosive - causes burns. Likely to be harmful if inhaled or swallowed.
Very destructive of mucous membranes. Toxicology not fully investigated.

Toxicity data

(The meaning of any toxicological abbreviations which appear in this section is given [here](#).)

Risk phrases

(The meaning of any risk phrases which appear in this section is given [here](#).)

R29 R34.

Transport information

(The meaning of any UN hazard codes which appear in this section is given [here](#).)

Personal protection

Safety glasses, gloves, adequate ventilation.

Safety phrases

(The meaning of any safety phrases which appear in this section is given [here](#).)

S26 S36 S37 S39 S45.

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