

Safety (MSDS) data for paraquat

General

Synonyms: paraquat dichloride; N,N'-dimethyl-gamma,gamma'-bipyridylum dichloride; methyl viologen dichloride; 1,1'-dimethyl-4,4'-Bipyridinium dichloride; Crisquat; Dexuron; Esgram; Gramuron; Ortho Paraquat CL; Para-col; Pillarxone; Tota-col; Toxer Total; Paraquat Cl; paraquat dichloride trihydrate; PP148; Cyclone; Dichloride salt of paraquat; Dimethyl-4,4'-bipyridinium dichloride; Dimethyl-4,4'-bipyridylum dichloride; Gramixel; Gramoxone; Gramoxone dichloride; Gramoxone S; Gramoxone W; Pathclear; N,N'-Dimethyl-4,4'-bipyridinium dichloride; Methyl Viologen hydrate; methyl viologen dichloride hydrate, AH 501.

Molecular formula: $C_{12}H_{14}Cl_2N_2$

CAS No: 1910-42-5

EINECS No: 217-615-7

Physical data

Appearance: off-white powder

Melting point:

Boiling point: 175 - 180 C (decomposes)

Vapour density:

Vapour pressure:

Density ($g\ cm^{-3}$): 1.25

Flash point:

Explosion limits:

Autoignition temperature:

Water solubility: high

Stability

Stable. Incompatible with strong oxidising agents.

Toxicology

Very toxic by inhalation, ingestion and if absorbed through skin. Possible mutagen. Possible carcinogen. May be fatal if swallowed, inhaled or absorbed through the skin. Very destructive of mucous membranes. Causes burns.

Toxicity data

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

ORL-MAN LDLO 1720 mg kg⁻¹

ORL-RAT LD50 57 mg kg⁻¹

IPR-MUS LD50 20 mg kg⁻¹

IHL-RAT LC50 1 mg/m³/6h

IVN-DOM LD50 1 mg kg⁻¹

Risk phrases

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

R24 R25 R36 R37 R38.

Transport information

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

UN No 2811. Packing group II. Transport category 2. Major hazard class 6.1.

Personal protection

Safety glasses, gloves, good ventilation. Avoid prolonged or repeated exposure.

Safety phrases

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

S22 S36 S37 S39 S45.

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its use, misuse, or accuracy. We have not verified this information, and cannot guarantee that it is up-to-date.
