

# Safety (MSDS) data for paraquat

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## General

Synonyms: paraquat dichloride; N,N'-dimethyl-gamma,gamma'-bipyridylium 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'-bipyridylium 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<sup>-1</sup>

ORL-RAT LD50 57 mg kg<sup>-1</sup>

IPR-MUS LD50 20 mg kg<sup>-1</sup>

IHL-RAT LC50 1 mg/m<sup>3</sup>/6h

IVN-DOM LD50 1 mg kg<sup>-1</sup>

### 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.

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