

SUMMARY OF RISK MANAGEMENT MEASURES FOR THE USE OF

Silane CAS 7803-62-5

Chemical safety assessments have been performed to assess the risk associated with the following uses :

Identified use	Sector of Use - main user groups (SU)	Sector of Use – sectors of end-use	Preparation Category (PC)	Process category (PROC)	Article category (AC)	Environmental Release Category (ERC)
Intermediate	SU3	SU8	PC19	PROC1	N/A	ERC6A

Safe use has been demonstrated by calculation of risk characterisation ratios. These are based on the following risk management measures:

Exposure scenario	Description	General measures	Specific Human Health risk management measures	Specific Environment management measures
ES1 and ES2	Production and Chemical intermediate (site specific)	(i) Rigorous containment and safe handling in line with industry best practice. (ii) Procedural and technological control using Best Available Technique (BAT)	(i) Local Exhaust ventilation (LEV) (ii) Personal Protective Equipment (PPE): Fluorinated or nitrile rubber gloves/ gauntlets; Full-face respirator with ABEK-filter; Goggles or face shield and Self-contained, positive pressure breathing apparatus (for prolong or high exposures) (ii) Specific workers' training	(i) Air emission abatement equipment: Incinerators (ii) Incineration of waste

Guidance on safe use

This is a relevant extract from more extended information in IUCLID section 11 and the eSDS.

Handling :

Advice on safe handling: Use only explosion-proof equipment. Prevent water from entering the gas container. Carefully flush clear and render inert before working on containers and lines. Prevent reflux into the gas container. Use only equipment that is suitable for use with this product at the prescribed pressure and temperature.

Advice on protection against fire and explosion: Take precautionary measures against static charges; keep away from sources of ignition. Explosion protection equipment required.

Storage :

Requirements for storage areas and containers: Store gas container and pressurized gas bottles in a cool and well-ventilated place. Observe special instructions applicable to compressed gases.

Maximum storage temperature: < 50°C. Keep away from, and do not store with, oxidants and burnable substances.

Engineering measures: If possible, use material transfer/filling, metering and blending plants that are closed, or provide for local suction devices. Priority should be given to closed-system units.

Respiratory protection: In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear a self contained respiratory apparatus

Hand protection: Use leather gloves as a protection against injury from handling pressurised gas cylinder or from freezing as a result of rapidly evaporating gas.

Eye protection: Close-fitting protective goggles (e.g. closed goggles)