

MANGANESE (II) CHLORIDE TETRAHYDRATE AR

PRODUCT CODE	568985
SYNONYMS	Manganous chloride
C.I. NO.	--
CASR NO.	(13446-34-9)
ATOMIC OR MOLECULAR FORMULA	MnCl ₂ ·4H ₂ O
ATOMIC OR MOLECULAR WEIGHT	197.90
PROPERTIES	Insoluble in ether. Soluble in alcohol.
PARAMETER	LIMIT
Description	Pink crystals / crystalline powder.
Solubility	10% solution in water is clear.
Minimum assay (Complexometric; ex Mn)	98.0%
pH of (5.0% solution in water)	3.50 -6.00
MAXIMUM LIMIT OF IMPURITIES	
Sulphate (SO ₄)	0.005%
Calcium (Ca)	0.2%
Iron (Fe)	0.001%
Heavy metals (Pb)	0.0005%
Magnesium (Mg)	0.04%
Zinc (Zn)	0.02%
Oxidising substances	No reaction.
Substances reducing iodine (I)	0.0065%
Note(s) : Assay (if applicable) method mentioned.	
DANGER HAZARD STATEMENTS : Combustible Liquid. Fatal if inhaled. Toxic in contact with skin. Toxic if swallowed. Causes mild skin irritation. May cause allergic skin reaction. Suspected of causing cancer. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Causes serious eye damage. Very toxic to aquatic life. PRECAUTIONARY STATEMENTS : Prevention : Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well ventilated area. Wear respiratory protection. Do not handle until all safety precautions have been read and understood. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. Contaminated clothing should not be allowed out of the workplace. Keep away from flames and hot surfaces. Obtain special instructions before use. Response : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Keep container tightly closed. If eye irritation persists, get medical advice/attention. If skin irritation or rash occurs, seek medical advice/attention. If exposed or concerned: Get medical attention advice. Wear eye/face protection. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs, seek medical advice/attention. Specific treatment: refer to Label or MSDS. Get medical advice/attention if you feel unwell. Call a POISON CENTER or doctor/physician if you feel unwell. In case of fire, use dry agent for extinction. In case of fire, use alcohol-type foam for extinction. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing Immediately call a POISON	
IMDG Code : 9/III UN No. : 3077 IATA : 9	

Product Specification

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CENTER or doctor/physician. Wash/Decontaminate removed clothing before reuse. IF ON SKIN: Gently wash with plenty of soap and water.

Disposal : Dissolve the chemical in dilute acid and neutralize the excess acid with sodium carbonate and run to the normal waste with large amounts of water. Any sand used to cover spillage should be thoroughly washed with water before disposal as normal waste. Alternatively the neutralized solution can be put in a container and disposed off.

Hazard Pictogram(s) :-



GHS05



GHS06



GHS08



GHS09

Replace Date 3-Oct-2025