



SDFCL
s d fine-CHEM limited
Quality Control Dept.



Product Specification

E Control	QC2\DATAD\D\PS\20113XPS.xls
PRODUCT CODE	20113
PRODUCT NAME	FORMALDEHYDE SOLUTION 37-41% W/V AR (Meets analytical specifications of BP, Ph. Eur., USP / NF)
SYNONYMS	Formalin
C.I. NO.	N/A
CASR NO.	50-00-0
ATOMIC OR MOLECULAR FORMULA	CH ₂ O
ATOMIC OR MOLECULAR WEIGHT	30.03
PROPERTIES	It is a powerful reducing agent, especially in presence of alkali. In the air it slowly oxidizes to formic acid. Vapour is lachrymatory.
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PARAMETER	LIMIT
Description	A clear and colourless solution of formaldehyde in water. Contains methanol (9-15 %) as stabilizer.
Solubility	Miscible with water & with absolute industrial methylated spirit forming a clear, colourless solution.
Appearance of solution	Passes test
Identification tests A, B	Passes test
Assay (acidimetric)	37.0 - 41.0% w/v
Wt.per ml at 20 °C	1.075 - 1.095 g
Methanol content (stabiliser)	10.0-15.0% v/v
MAXIMUM LIMIT OF IMPURITIES	
Acidity (as HCOOH)	0.05%
Residue after ignition (as SO ₄)	0.005%
Chloride (Cl)	0.0005%
Sulphate (SO ₄)	0.002%
Iron (Fe)	0.0005%
Heavy metals (as Pb)	0.0005%
Residual solvents	Complies
Store : Store protected from light and moisture, at a temp. above 15 °C (polymerises if stored below 15 °C)	
Note(s) : Assay (if applicable) method mentioned.	
DANGER HAZARD STATEMENTS : Combustible Liquid. Fatal if inhaled. Fatal if swallowed. Toxic in contact with skin. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May be corrosive to metals. Causes severe skin burns and eye damage. Harmful to aquatic life.	
IMDG Code : 8/III UN No. : 2209 IATA : 8	

PRECAUTIONARY STATEMENTS :

Prevention : Wash hands thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Wear respiratory protection. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Do not breathe dust or mist. Wear protective gloves/clothing Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Obtain special instructions before use. Use explosion-proof electrical/ventilating/lighting/equipment. Use only outdoors or in a well ventilated area. Contaminated clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapours/spray. Keep away from flames and hot surfaces.

Response : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Keep container tightly closed. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position. comfortable for breathing. If exposed or concerned: Get medical attention advice. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment: refer to Label or MSDS. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. Absorb spillage to prevent material damage. IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician. Wash/Decontaminate removed clothing before reuse. Remove/Take off immediately all contaminated clothing.

Disposal : Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water.

Hazard pictogram(s) :



Acute toxicity Aspiration hazard Corrosive to metals

Prepared By : MANISH PATEL	Checked By: K.B.DESAI	Approved By: S.S.TOLIA	Issue Date : 01/07/2002
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