



SDFCL
s d fine-CHEM limited

Quality Control Dept.

Product Specification



E Control	QC2\DATAD\ID:\PS\20158XPS.xls
PRODUCT CODE	20158
PRODUCT NAME	METHANOL AR (Meets analytical specification of Reagent IP, BP, USP-NF, Ph.Eur.)
SYNONYMS	Methyl alcohol
C.I. NO.	N/A
CASR NO.	67-56-1
ATOMIC OR MOLECULAR FORMULA	CH ₃ OH
ATOMIC OR MOLECULAR WEIGHT	32.04
PROPERTIES	Highly polar liquid
$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$	
PARAMETER	LIMIT
Description	A clear liquid with a characteristic odour, not more than 10 Hazen units in colour.
Solubility	30% solution in water is clear and colourless within 1 hour.
Identification test A Refractive Index (n) _D ²⁰	1.328-1.330
Identification Test B (By FTIR)	Conforms
Minimum assay (By GC)	99.5%
Wt. per ml at 20°C	0.790-0.793 g
Boiling range (64.5-65.5°C)	Conforms
MAXIMUM LIMIT OF IMPURITIES	
Acidity (as HCOOH)	0.001%
Alkalinity (as NH ₃)	0.00017%
Non volatile matter	0.001%
Acetone & aldehydes (as Acetone)	0.003%
Acetone (By GC)	0.001%
Reducing substances	0.00025%
Readily oxidisable substances	Passes test (min 5 minutes)
Readily carbonisable substances	Passes test

Water	0.05%
Iron (Fe)	0.0001%
Maximum Absorbance in a 1.0 cm cell at :	
230 nm	0.15
250 nm	0.05
270 nm	0.02
290 nm	0.01
Benzene content (C ₆ H ₆)(By GCHS)	2 ppm w/v
Sum of peaks (Total impurities) (By GC)	0.3%
Related substances	Passes test
Sulphate (SO ₄)	0.0005%
Chloride (Cl)	0.0001%
Residual solvents	Excluded by production process

Note(s) : Assay (if applicable) method mentioned.

DANGER

HAZARD STATEMENTS :May cause drowsiness and dizziness. Highly flammable liquid and vapour. Fatal if inhaled. Toxic in contact with skin. Toxic if swallowed. Causes mild skin irritation. Causes eye irritation. Causes damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS :

Prevention : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear respiratory protection. Ground/bond container and receiving equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/clothing. Use only outdoors or in a well ventilated area. Wear protective gloves and eye/face protection. Keep container tightly closed. Keep away from heat/sparks/open flame - No smoking. Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools. Take precautionary measures against static discharge.

Response : Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Gently wash with plenty of soap and water. If eye irritation persists, get medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If skin irritation occurs, seek medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of fire, use alcohol-type foam for extinction. 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. Specific treatment: refer to Label or MSDS. Remove/Take off immediately all contaminated clothing. Wash/Decontaminate removed clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.

IMDG Code : 3/II
UN No. : 1230
IATA : 3

Disposal : Allow to evaporate in safe open area (applicable for small quantities). The chemical should be burnt in a chemical incinerator equipped with burner and scrubber. If the volumes are larger than 500ml and no incinerator and site of evaporation is not available then transfer the waste chemical to waste solvent drum for collection by specialist disposal company.

Hazard pictogram(s) :



Flammable liquids Acute toxicity Aspiration hazard

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