



SDFCL
s d fine-chem limited
Quality Control Dept.



Product Specification

E Control	QC2\DATAD\DI\PS\20094XPS.xls
PRODUCT CODE	20094
PRODUCT NAME	DIETHYL ETHER AR (Meets analytical specifications of ACS)
SYNONYMS	Solvent ether, Ethyl ether
C.I. NO.	N/A
CASR NO.	60-29-7
ATOMIC OR MOLECULAR FORMULA	C ₄ H ₁₀ O
ATOMIC OR MOLECULAR WEIGHT	74.12
PROPERTIES	Caution : Although, this material is not anhydrous, Diethyl ether tends to form explosive peroxides, especially when anhydrous. It should not be allowed to evaporate to dryness unless the absence of peroxides has been confirmed. Hydroscopic with aromatic odor Storage Temp. : < 30 °C



PARAMETER	LIMIT
Description	A clear colourless liquid with a characteristic odour having colour not more than 10 Hazen units.
Wt. per ml at 20 °C	0.713 - 0.715 g
Refractive index (n) _D ²⁰	1.351 -1.353
Boiling Range	34-35 °C
Minimum Assay (By GC)	99.5%
MAXIMUM LIMIT OF IMPURITIES	
Acidity (CH ₃ COOH)	0.001%
Water	0.20%
Residue on evaporation (excluding stabiliser)	0.001%
Aldehydes & Ketones	0.002%
Ethanol (C ₂ H ₅ OH)	0.05%
Methanol (CH ₃ OH)	0.05%
Peroxide (H ₂ O ₂)	0.00003%
Substances darkened by Sulphuric acid	Passes test
Corbonyl compound (CO)	0.001%
Stabiliser BHT	Abt 10 ppm

Note(s) : Assay by Gas Chromatography method

DANGER

HAZARD STATEMENTS : May cause respiratory irritation. Highly flammable liquid and vapour Harmful if swallowed. Causes skin irritation. Causes eye irritation. May cause allergic skin reaction. Harmful to aquatic life.

PRECAUTIONARY STATEMENTS :

Prevention : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use only non-sparking tools. Ground/bond container and receiving equipment. Wash thoroughly after handling. Contaminated clothing should not be allowed out of the workplace.
Avoid breathing dust/fume/gas/mist/vapours/spray. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves and eye/face protection. Keep container tightly closed. Take precautionary measures against static discharge. Keep away from heat/sparks/open flame - No smoking.

IMDG Code :3.1/I
UN No. :1155
IATA :3

Response : 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. Wash contaminated clothing before reuse. If skin irritation or rash occurs, seek medical advice/attention. If eye irritation persists, get medical advice/attention. If skin irritation occurs, seek medical advice/attention. IF ON SKIN: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Specific treatment: refer to Label or MSDS. Wash/Decontaminate removed clothing before reuse. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. In case of fire, use foam for extinction.

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. After testing for peroxide the product should be given to specialized disposal company.

Hazard pictogram(s) :



Skin irritation Flammable liquids

Prepared By : VINOD PATEL	Checked By: RAJU VYAS	Approved By: S.S.TOLIA	Issue Date : 01/07/2002
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