



SDFCL
S d fine-CHEM limited

Quality Control Dept.

Product Specification



E Control	QC2\DATAD\DA\PS\25326XPS.xls
PRODUCT CODE	25326
PRODUCT NAME	ACETONITRILE SUPRA GRADIENT GRADE FOR CHROMATOGRAPHY, HPLC
SYNONYMS	Methyl cyanide
C.I. NO.	N/A
CASR NO.	75-05-8
ATOMIC OR MOLECULAR FORMULA	CH ₃ CN
ATOMIC OR MOLECULAR WEIGHT	41.05
PROPERTIES	Limpid liquid, high dielectric constant, high polarity, strongly reactive, burns with a luminous flame.
$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{C}\equiv\text{N} \\ \\ \text{H} \end{array}$	
PARAMETER	LIMIT
Description	A clear colourless liquid, not more than 10 APHA in colour.
Solubility	50% solution in water is clear & colourless.
Minimum assay (By GC)	99.9%
Wt per ml at 20 °C	0.781-0.783 g
Refractive Index(n) _D ²⁰	1.343-1.345
UV transmission (Min.%)	
193 nm	60%
195 nm	80%
200 nm	95%
220 nm	98%
230 nm	98%
254 nm	99%
Gradient test :	
Highest peak at 210 nm	2 mAU
Highest peak at 254 nm	0.5 mAU
MAXIMUM LIMIT OF IMPURITIES	
Residue on evaporation	0.0003%
Water	0.02%
Acidity (as CH ₃ COOH)	0.002%
Alkalinity (as NH ₃)	0.0002%
Filtered through 0.2 um membrane filter. Packed under inert gas.	
Note(s) : Assay (if applicable) method mentioned.	

DANGER

HAZARD STATEMENTS : Highly flammable liquid and vapour. Fatal if swallowed. Toxic if inhaled. Harmful in contact with skin. Causes serious eye irritation. May damage the unborn child. Harmful to aquatic life.

PRECAUTIONARY STATEMENTS :

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.

IMDG Code :3/II
UN No. :1648
IATA :3

Response : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.

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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