



**SDFCL**  
s d fine-CHEM LIMITED



Quality Control Dept.

Product Specification

E Control	QC2\DATAD\ID\PS\20869\XPS.xls
<b>PRODUCT CODE</b>	<b>20869</b>
<b>PRODUCT NAME</b>	<b>ACETONITRILE DRY AR (H<sub>2</sub>O &lt; 0.005%)</b>
<b>SYNONYMS</b>	Methyl cyanide
<b>C.I. NO.</b>	N/A
<b>CASR NO.</b>	75-05-8
<b>ATOMIC OR MOLECULAR FORMULA</b>	CH <sub>3</sub> CN
<b>ATOMIC OR MOLECULAR WEIGHT</b>	41.05
<b>PROPERTIES</b>	Limpid liquid, high dielectric constant, high polarity, strongly reactive, burns with a luminous flame.
	$\begin{array}{c} \text{H} \\   \\ \text{H}-\text{C}-\text{C}\equiv\text{N} \\   \\ \text{H} \end{array}$
<b>PARAMETER</b>	<b>LIMIT</b>
Description	A clear liquid, not more than 10 Hz units in colour
Solubility	Miscible with water & Methanol forming a clear & colourless soln
Wt per ml at 20 °C	0.781 - 0.783 g
Refractive Index (n) <sub>D</sub> <sup>20</sup>	1.343 - 1.345
Minimum assay (By GC)	99.5%
	<b>MAXIMUM LIMIT OF IMPURITIES</b>
Water	0.005%
Acidity (CH <sub>3</sub> COOH)	0.01%
Alkalinity (NH <sub>3</sub> )	0.001%
Non volatile matter	0.005%
Cyanide (CN)	0.005%
Copper (Cu)	0.00005%
Iron (Fe)	0.00002%
Lead (Pb)	0.00002%

**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.

**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.

IMDG Code :3/II  
UN No. :1648 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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