



SDFCL
s d fine-CHEM limited

Quality Control Dept.

Product Specification



E Control	QC2\DATAD\DA\PS\37047XPS.xls
PRODUCT CODE	37047
PRODUCT NAME	ACRYLONITRILE LR (For synthesis)
SYNONYMS	Vinyl cyanide
C.I. NO.	N/A
CASR NO.	107- 13- 1
ATOMIC OR MOLECULAR FORMULA	C ₃ H ₃ N
ATOMIC OR MOLECULAR WEIGHT	53.06
PROPERTIES	May polymerize spontaneously particularly in the absence of oxygen or on exposure to visible light. Polymerize violently in the presence of concentrated alkali. On standing may slowly develop a yellow colour, particularly after excessive exposure to light.
$\begin{array}{c} \text{H}_2\text{C}=\text{C}-\text{C}\equiv\text{N} \\ \\ \text{H} \end{array}$	
PARAMETER	LIMIT
Description	A clear & colourless liquid.
Solubility	Miscible with alcohol, water and chloroform forming clear and colourless solution.
Minimum assay (By GC)	99.0%
Wt.per ml at 20 °C	0.805 - 0.807 g
Refractive index(n) _D ²⁰	1.391 - 1.392

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

DANGER

HAZARD STATEMENTS : May cause respiratory irritation. Highly flammable liquid and vapour. Fatal if inhaled. Toxic if swallowed. Toxic in contact with skin. Causes skin irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause CANCER. Causes serious eye damage. Toxic to aquatic life with long lasting effects. Toxic 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. Do not breathe dust/fume/gas/mist/vapours/spray. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Wear respiratory protection. In case of inadequate ventilation wear respiratory protection.

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 INHALED: If breathing is difficult, 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. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment is urgent (see MSDS). Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Collect spillage.

IMDG Code : 3/1
UN No. : 1093 IATA
: 3

Disposal : 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



Corrosive to metals



Hazardous to the aquatic environment

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