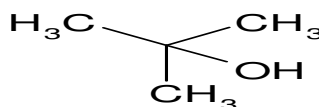




Product Specification

|                             |                                        |
|-----------------------------|----------------------------------------|
| E Control                   | QC2\DATAD\DA\PS\37508XPS.xls           |
| PRODUCT CODE                | 37508                                  |
| PRODUCT NAME                | 2-METHYLPROPAN-2-OL LR (for synthesis) |
| SYNONYMS                    | tert-butyl alcohol                     |
| C.I. NO.                    | N/A                                    |
| CASR NO.                    | 75-65-0                                |
| ATOMIC OR MOLECULAR FORMULA | (CH <sub>3</sub> ) <sub>3</sub> COH    |
| ATOMIC OR MOLECULAR WEIGHT  | 74.12                                  |
| PROPERTIES                  |                                        |



| PARAMETER                 | LIMIT                                                                 |
|---------------------------|-----------------------------------------------------------------------|
| Description               | A clear liquid, not more than 10 Hazen units in colour.               |
| Solubility                | Miscible with water & methanol forming clear and colourless solution. |
| Minimum assay(By GC)      | 98.0%                                                                 |
| Wt.per ml at 30 °C        | About 0.775 g                                                         |
| Boiling Range(82 - 83 °C) | Min. 95.0%                                                            |
| Freezing Point            | 24.5 - 25.5 °C                                                        |
| Non volatile matter       | Not more than 0.003%                                                  |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <p><b>DANGER</b></p> <p><b>HAZARD STATEMENTS :</b> May cause drowsiness and dizziness. Highly flammable liquid and vapour. Harmful if inhaled. Harmful if swallowed. Causes mild skin irritation. May cause allergic skin reaction. May damage the unborn child.</p> <p><b>PRECAUTIONARY STATEMENTS :</b></p> <p><b>Prevention :</b> Ground/bond container and receiving equipment. Do not eat, drink or smoke when using this product. Contaminated clothing should not be allowed out of the workplace. Use only outdoors or in a well ventilated area. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash hands thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. Keep container tightly closed. Keep away from heat/sparks/open flame - No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Wear protective gloves and eye/face protection. Use explosion-proof electrical/ventilating/lighting/equipment.</p> <p><b>Response :</b> Wash contaminated clothing before reuse. If skin irritation or rash occurs, seek medical advice/attention. If skin irritation occurs, seek medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. In case of fire, use alcohol-type foam for extinction. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. If exposed or concerned: Get medical attention advice. Specific treatment: refer to Label or MSDS. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p><b>Disposal : ---</b></p> | <p>IMDG Code : 3/II</p> <p>UN No. : 1120</p> <p>IATA : 3</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|

Hazard pictogram (s) :



**Skin irritation Flammable liquids Aspiration hazard**

|                             |                            |                               |                           |
|-----------------------------|----------------------------|-------------------------------|---------------------------|
| Prepared By : DINESH        | Checked By: RAJU VYAS      | Approved By: S.S.TOLIA        | Issue Date : 01/07/2002   |
| Name/Dept. : Officer (Q.A.) | Name/Dept. :Incharge(Q.A.) | Name/Dept. : Incharge (Tech.) | Revision No. : 01         |
| Sign. :                     | Sign. :                    | Sign. :                       | Revision dt. : 16/08/2010 |
| Date : 14/08/2010           | Date : 14/08/2010          | Date : 16/08/2010             | AMEND NO. : P062          |