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|  | CALCIUM STEARATE MFLOW-20 | | | | MLA <hr/> GROUP |
| | M.L.A. INDUSTRIES, 111/230, HARSH NAGAR, KANPUR Tel. : (0512)-2555292, Fax No. : 0512-2545548 E-mail: sales@mlagroup.com , mktg@mlagroup.com | | | | |
| UNIFLOW | Doc. No.:MLA/SPECS/59C | Issue No.: 02 | Issue Date: 10.3.2013 | Replaces: issue dt 5.4.2010 | |

CALCIUM STEARATE

UNIFLOW is a synthetic Calcium Stearate manufactured by a novel proprietary process developed by our R & D department having tremendous experience in precipitation and particle size/morphology control technology, and recognized by the Department of Scientific and Industrial Research, Government of India. The output is a unique combination of fineness and thermal stability in the product and better dispersion in the base polymer. The product is technically far better than the currently available products, besides the assurance of consistent quality from an ISO 9001:2000 certified unit.

TYPICAL PHYSIO-CHEMICAL PROPERTIES


| PROPERTY | UNIT | MFLOW -20 |
|--|---------|----------------------------------|
| Colour & Appearance | - | White Free Flowing Powder |
| Bulk Density ^{1,3} – Loose – Compact * | gm/cc | 0.25 |
| | | 0.32 |
| Moisture (105 °C) ² | % | <2.0 |
| Electrolytes | % | <1.0 |
| Residue on 300 mesh ⁵ | % | <0.2 |
| Melting Point | °C | 160±5 |
| Melt Quality | -- | White with good flow, no bubbles |
| CaO | % | 7.5-9.0 |
| Fe content | Ppm max | 80 |
| Heavy metals as Pb | Ppm max | 20 |
| Free fatty matter | % | <1.0 |
| pH ⁴ | -- | 8.0-10.5 |

1) At the time of packing 2) By IR Moisture Balance 3) IS: 7589-1974 (A-8) 4) IS: 12076-1986(A-2) 5) IS: 2850-1983 (A-5.1)

This information and our technical advice-whether verbal, in writing or by way of trials are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sales and Delivery.

APPLICATION:

- As an acid scavenger in polymers processing
- As an internal lubricant in PVC and other polymers processing
- As a water repellent in paints and other coatings

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| UNIFLOW | Doc. No.:MLA/SPECS/59F | Issue No.: 01 | Issue Date: 05.02.2013 | Replaces: All previous Issues |

CALCIUM STEARATE DLI-HAL

UNIFLOW is a synthetic thermally Calcium-Stearate manufactured by a novel proprietary process developed by our R & D department having tremendous experience in precipitation and particle size/morphology control technology. The output is a unique combination of lightness and melts transparency/stability in the product and better dispersion in the base polymer. The product is technically far better than the currently available products, besides the assurance of consistent quality from an ISO 9001:2000 and GMP certified unit.

TYPICAL PHYSIO-CHEMICAL PROPERTIES


| PROPERTY | UNIT | DLI-HAL specs | Value (B.No.5a/155) |
|----------------------------------|-------------|---------------------------|------------------------------------|
| Colour & Appearance | - | White Free Flowing Powder | White free flowing powder |
| Moisture (105 °C) ² | % | <2.0 | 0.8 |
| Bulk density | Gm/cc | 0.2 | 0.208 |
| Electrolytes | % | <1.0 | 0.24 |
| Residue on 300 mesh ⁵ | % | <0.2 | 0.03 |
| Melting Point | °C | 155±5 | 156 |
| Softening point | °C | 120-125 | 124 |
| Melt Quality | -- | Clear & Transparent | Clear and transparent |
| Ca | % | 6.4-6.8 | 6.55 |
| Ash content | % | 9.2-10.2 | 9.73 |
| Free fatty matter | % | <0.4 | 0.12 |
| Contamination | - | NIL | NIL |
| Thermal stability 180 C , 3hrs | - | White to slight yellow | Slight yellow (picture enclosed) |

1) At the time of packing 2) By IR Moisture Balance 3) IS: 7589-1974 (A-8) 4) IS: 12076-1986(A-2) 5) IS: 2850-1983 (A-5.1)

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APPLICATION:

- As an acid scavenger in polymers processing
- As an internal lubricant in PVC and other polymers processing
- As a water repellent in paints and other coatings

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|  | CALCIUM STEARATE | | | | MLA <hr/> GROUP |
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| UNIFLOW | Doc. No.:MLA/SPECS/59F | Issue No.: 01 | Issue Date: 10.3.2013 | Replaces: issue dt 5.4.2007 | |

CALCIUM STEARATE

UNIFLOW is a Calcium-Stearate manufactured by a novel semi-wet process developed by our R & D department having tremendous experience in precipitation and particle size/morphology control technology. The output is a unique combination of melt transparency/stability in the product and better dispersion in the base polymer. The product is technically far better than the currently available products, besides the assurance of consistent quality from an ISO 9001:2000 certified unit.

TYPICAL PHYSIO-CHEMICAL PROPERTIES

| PROPERTY | UNIT | DLI - PC |
|--|-------|---------------------------|
| Colour & Appearance | - | White Free Flowing Powder |
| Bulk Density ^{1,3} – Loose – Compact * | gm/cc | 0.3-0.4 |
| | | 0.4-0.5 |
| Moisture (105 °C) ² | % | <2.0 |
| Electrolytes | % | <1.0 |
| Residue on 240 mesh ⁵ | % | <3.0 |
| Melting Point | °C | 160±5 |
| Melt Quality | -- | Clear & Transparent |
| CaO | % | 9-10 |
| Ash content | % | 10-11 |
| Free fatty matter | % | <1.0 |
| pH ⁴ | -- | 8.0-10.5 |

1) At the time of packing 2) By IR Moisture Balance 3) IS: 7589-1974 (A-8) 4) IS: 12076-1986(A-2) 5) IS: 2850-1983 (A-5.1)

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APPLICATION:

- As an acid scavenger in polymers processing
- As an internal lubricant in PVC and other polymers processing
- As a water repellent in paints and other coatings