

PRODUCT MASTER FILE

OPTISM® (METHYLSULPHONYLMETHANE) FLAKE



LEHVOSS
Nutrition

DESCRIPTION

| | |
|----------------------|--|
| Product name | OPTISM® (METHYLSULPHONYLMETHANE) FLAKE |
| Product code | 26000109 |
| Physical description | White Flake |
| Shelf life | 5 years |
| Origin | USA |
| CAS Number | 67-71-0 |

TECHNICAL SPECIFICATION

| Item | Specification | Method |
|-------------------------------|-----------------|---------------------------|
| Volatile purity | >99.8% | MSM-GC/FID ^{1,2} |
| Assay | 98.0%-102.0% | MSM-GC/FID ¹ |
| Identity | Pass | USP Method B |
| Melting point | 109.5°C + 1.0°C | USP/NF<741> |
| Water content | <0.1 | USP/NF <921a> |
| DMSO Content | <0.05% | MSM-GC/FID ^{1,2} |
| Individual Impurity | NMT 0.05% | GC/FID ¹ |
| Particle size 12 ³ | NLT 98% through | USP/NF<786> |
| Bulk density | NLT 0.68 g/ml | USP/NF<616> |
| Tapped density | NLT 0.78 g/ml | USP/NF<616> |
| Individual impurity | <0.05% | GC/FID ¹ |

MICROBIOLOGICAL QUALITY

| | | |
|----------------------------|-----------|----------|
| Total Aerobic plate count | <10 cfu/g | USP <61> |
| Total Yeast / mould counts | <10 cfu/g | USP <61> |
| Enterobacteria | Absent | USP <62> |
| Escherichia coli | Absent | USP <62> |
| Salmonella | Absent | USP <62> |
| Staphylococcus aureus | Absent | USP <62> |

HEAVY METALS

| | | |
|--------------|------------|----------------------------------|
| As (Arsenic) | <0.01 ppm | EPA 200.8 - ICPMS ^{1,2} |
| Cd (Cadmium) | <0.005 ppm | EPA 200.8 - ICPMS ^{1,2} |
| Hg (Mercury) | <0.001 ppm | EPA 7471A ^{1,2} |
| Pb (Lead) | <0.01 ppm | EPA 200.8 - ICPMS ^{1,2} |

1.Third party laboratory validated method

2.Additional third party validation method may be used in place of listed method

3.U.S. Sieve Designation



LEHVOSS Nutrition Team
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OTHER DATA

| Item | Information |
|-----------------------|--|
| Origin | Synthetic |
| Botanical name | Not applicable |
| Part(s) of plant used | Not applicable |
| Extraction solvent | Not applicable |
| Extraction ratio | Not applicable |
| Particle size | See above specification |
| Bulk density | See above specification |
| Solubility in water | Soluble |
| Country of Origin | USA |
| Ingredients | Methylsulfonylmethane (MSM) (99.9%), Amorphous Silicon dioxide (0.1%) |
| Packing size | 20kg bag |
| Storage conditions | Keep in the original unopened containers in a cool, dry well ventilated location |

REGULATORY STATUS

| Item | Information |
|--|--|
| Extraction Solvents | Not applicable |
| Pesticides | Not applicable |
| Mycotoxins | Not applicable |
| PAH's | Not applicable |
| Dioxins, Furans, Dioxins like PCB's and Non dioxin like PCBs | Not applicable |
| Heavy Metals | Complies with regulation EC/1881/2006/ and amendments thereof, where applicable |
| Arsenic | <1 ppm |
| BSE/TSE | Free from BSE/TSE |
| GMO Status | Does not have to be labelled as a GMO according to regulations EC/1829/2003 and EC/1830/2003 |
| Irradiation Status | Non Irradiated |
| Melamine | Complies with regulation EC/1881/2006/ and amendments thereof, where applicable |
| Ethylene Oxide | Absent |
| Vegetarian Status | Suitable for Vegetarians |
| Vegan Status | Suitable for Vegans* |
| Kosher certified | Yes |
| Halal certified | Yes |
| Applications | Suitable for use in food supplements |
| Nano material | The product is not a Nano material |
| Food Packaging | Compliant with regulations EC/2023/2006, EC935/2004, EC/10/2011 |
| WADA | The product is not known to contain any WADA listed substances |

*Dietary Veganism



Signed



Dr Julian Domszy - Technical Manager



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