Sarex Overseas (A division of Sarex Organics Pvt. Ltd.)
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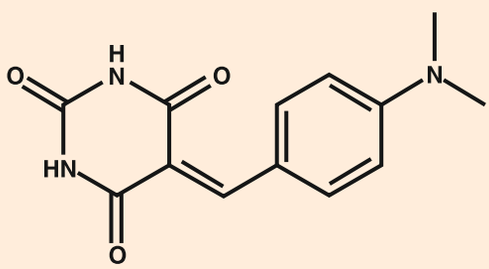
SARALITE RL-1000 (DMBA)

1. STRUCTURE



2. PRODUCT NAME & DETAILS

5-[4-(Dimethylaminobenzylidene)barbituric acid] (Saralite RL-1000 (DMBA))

Product Code	**: 011111**
CAS No.	**: 1753-47-5**
HS Code	**: 2933.54.00**
Molecular formula	**: $C_{13}H_{13}N_3O_3$**
Molecular weight	**: 259.26**

3. REGULATORY INFORMATION

Chemical name	Common names and synonyms	CAS number	EC number
5-[4-(Dimethylaminobenzylidene) barbituric acid]	DMBA	1753-47-5	217-140-5

European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed
EC Inventory	Listed
United States Toxic Substances Control Act (TSCA) Inventory	Listed
China Catalog of Hazardous chemicals 2015	Not Listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed
Korea Existing Chemicals List (KECL)	Not Listed
Canadian Domestic Substance List (DSL)	Not Listed
Canadian Non-Domestic Substance List (NDSL)	Listed
Japanese Existing and New Chemical Substances Inventory (ENCS)	Not Listed

4. SPECIFICATION

Physical Appearance	**: Bright Crimson Red Powder**
Solubility	**: Clear Solution (1% in DMSO)**
Melting Point	**: 258.0 to 263.0 °C**
Moisture Content (KF)	**: NMT 0.50%**

Disclaimer
Typical properties should not be considered as specification.
Product covered by valid patents are not offered or supplied for commercial use. The Patent position should be verified by the customer.
Products will not be supplied to countries where they could be in conflict with existing patents.
Products currently covered by valid US patents are offered for R&D use in accordance with 35 USC 271 (e) (I)
Above information is given in good faith and without warrenty.

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5. APPLICATION : It is a photoselective additive for plastic agricultural applications such as covers that helps improve crop quality and productivity.

It is a red luminescent additive for agricultural films, shifts or converts light from the UV part of the spectrum to visible light used by crops for photosynthesis.

It can boost growth of certain flowers like roses, which can produce higher yields compared with a conventional PE film and shorter growing cycles.

The additive is designed to transform plastic films used in this industry from a simple cover to a sophisticated and active part of the crop growing process.

6. HAZARD CLASSIFICATION : Non-Hazardous substance.

Irritant

7. ANNUAL CAPACITY : 10 MT.

8. STORAGE CONDITION : Store in closed container at ambient temperature. Avoid direct sun light.

9. PACKING DETAILS : 25 Kg in corrugated box and 300 kg in big bag.

10. SHELF LIFE : 3 years.

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