Saltidin® – CHEMICAL AND PHYSICAL PROPERTIES

1. Structure: [Chemical structure diagram]
2. Empirical formula: C₁₂H₂₃NO₃
3. Chemical name: 1-piperidinecarboxylic acid 2-(2-hydroxyethyl)-1-methylpropylester
4. Commercial name: Saltidin®
5. Common name: Icaridin
6. Elincs number: 423-210-8
7. CAS number: 119515-38-7
8. Relative molecular mass: 229.3 g/mole
9. Form: liquid, clear
10. Solidifying point: < –170°C
11. Viscosity: 30.7 sec. flow time according to DIN 53211, 129 mPa·s at 20ºC
12. Boiling point: 272ºC at 1013 hPa
13. Vapour pressure: 3.4 x 10⁻⁴ hPa at 20ºC, 5.9 x 10⁻⁴ hPa at 25ºC, 7.1 x 10⁻³ hPa at 50ºC
14. irritation: non-irritant
15. Colour: colourless/brownish
16. Odour: almost no odour
17. Purity of technical product: min. 97%
18. Flashpoint: 142°C
19. Density: 1.036 g/cm³ at 20ºC
20. Solubility: in water: 8.6 g/l at 20ºC, in acetone: > 250 g/l at 20ºC, in n-heptane: > 250 g/l at 20ºC, in propane-2-ol: > 250 g/l at 20ºC, in xylene: > 250 g/l at 20ºC
21. Storage conditions: store at room temperature

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 verify the information currently provided – especially that contained in our safety data and technical information sheets – 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 Sale and Delivery.

THE HIGHLY EFFICIENT ACTIVE INGREDIENT FOR USE IN YOUR INSECT REPELLENT

Saltidin® – MAIN PROPERTIES

Efficiency:
- Long lasting
- Broad spectrum of insects

Safety:
- Low toxicity
- Not neurotoxic
- Not irritating to skin
- Non-sensitising to skin
- Germ inhibiting property

Compatibility:
- Safe for plastics
- Safe for coatings
- Safe for sealants
- Safe for environment

Cosmetic properties:
- Odorless
- Not sticky
- Pleasant skin feel
- Not greasy

Color:
- Customized

Easy to formulate:
- Good solubility
- Highly stable
- Not corrosive
- Colorless

EFFECTIVENESS OF SALTIDIN®

Based on broad laboratory and field tests, Saltidin® shows sustainable effectiveness against the following species:


Flies: Musca domestica, Stomoxys calcitrans, Simulium venustum, Tabanidae.

Ticks: Ixodes ricinus, Ixodes scapularis (damini), Rhipicephalus sanguineus.

Other: Biting midges/No seeums, Culicoides spp, ants and cockroaches.
SuStainaBlly TeSteeD

The toxicological profile of Saltidin® has been extensively evaluated following a program of protocols developed in close cooperation with the US Environmental Protection Agency (EPA). In order to generate the most reliable and consumer relevant data, all studies involved application of Saltidin®-containing products to the skin and measured dermal exposure. No adverse outcomes were identified in any studies in the program.

REgulatORY aFFaiRS

In the United States, insecticides are regulated by the US Environmental Protection Agency (US EPA), which establishes strict standards for safety, effectiveness and product quality. Saltidin® was approved as a repellent active ingredient by the US EPA in 2005. Saltigo has registered 20% pump spray and 20% cream formulation in the US in 2006. The formulation All Family Insect Repellent Spray (20%) is registered also in Canada (2012) and in China (2011).

REGULATORY AFFAIRS EU

The active substance Saltidin® is currently in the evaluation programme of the Biocidal Product Directive (BPD, 98/8/EC). Thus, the active substance Saltidin® as well as biocidal products containing the active substance Saltidin® can be placed on the market of the European Union under existing national legislation until the final decision on the approval on active substance Saltidin®.

DiFFEREnTe FRaMe FORMuLAtIONS aVailaBlE

The following formulations have been developed by Saltigo and are available on request, subject to adequate compensation:

CONSUMER PRODUCt VARIAtIONS

Saltidin® can be easily formulated as a liquid, aerosol, pump spray, wipe, cream/balm or stick, making it suitable for a wide variety of applications. Depending upon the dosage level, the active formula provides between 3 to 5 hrs (10% formula) and up to 14 hrs (20% formula) of protection. Compositions may be reduced under 10% formula to achieve short term protection.

INTERNATIONAL PRODUCt REgISTRATIOnS

Restrictions covering the marketing of repellents vary in every country. Depending on the country, they are either covered by the legislation that regulates pharmaceutical, cosmetic products, insecticides or biocides. Saltidin® is registered in the majority of the countries (for details please refer to our website www.saltidin.com).

SUSTAINABLY TESTED

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