



SALTIDIN® Combi Sun 15 % (water-resistant formulation with SPF 15)

Saltidin® (known as Picaridin in the US)

Issued in February 2011

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.



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1. Preliminary Remarks

The use of repellents by application to skin and clothing is an important means of human protection against blood-sucking insects and ticks as well as arthropod-borne disease transmission.

Saltidin® belongs to a new generation of synthetic repellents developed as an alternative to DEET.

Developed by Bayer AG using molecular modelling techniques, Saltidin® showed the best performance among more than 800 substances against a variety of arthropods and the best characteristics as far as safety and compatibility with skin and plastic materials are concerned.

Presently, this molecule is owned by Saltigo GmbH (LANXESS Group) and is marketed by LANXESS Corporation (previously a Division of Bayer Corporation) in the USA.

Saltidin® is a safe and reliable insect repellent and stands for effective protection against various diseases transmitted by:

- ✓ Mosquitoes
- ✓ Ticks
- ✓ Flies
- ✓ Horseflies
- ✓ Sandflies
- ✓ Biting midges
- ✓ Fleas
- ✓ Ants
- ✓ Cockroaches

Due to its broad spectrum of efficacy, its favourable toxicological and cosmetic properties, Saltidin® can be safely used by consumers.

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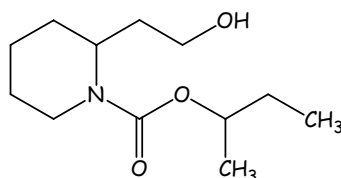
2. Physical and Chemical Properties

Chemical Name: 1-PIPERIDINECARBOXYLIC ACID, 2-(2-HYDROXY-ETHYL), 1-METHYLPROPYLESTER

Commercial Name: Saltidin®

Other Names: Icaridin, KBR 3023, Bayrepel™, Picaridin, (US EPA Registration)

Structure:



Empirical Formula: C₁₂H₂₃NO₃

ELINCS Number 423-210-8

CAS Number 119515-38-7

Molecular weight: 229.3 g/mol

Melting point: < -170 °C

Boiling point: 272 °C at 1013 hPa

Viscosity: 30.7 sec. flow time accord. To DIN 53211, Dynamic: 129 mPa.s at 20 °C

Vapour pressure: 3.4 x 10⁻⁴ hPa at 20 °C
5.9 x 10⁻⁴ hPa at 25 °C
7.1 x 10⁻³ hPa at 50 °C

Flash point: 142 °C

Density: 1.036 g/m³ at 20 °C

Solubility: In water: 8.6 g/L at 20 °C
In propane-2-ol: > 250 g/L at 20 °C
In acetone: > 250 g/L at 20 °C
In n-heptane: > 250 g/L at 20 °C
In xylene: > 250 g/L at 20 °C

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Appearance:	Clear liquid, colourless to brownish
Odour:	Slightly odorous
Storage conditions:	Store at room temperature

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3. Formulation

Saltidin® Combi Sun 15%

(water-resistant formulation with SPF 15)

- **Saltidin® Combi Sun 15% cream**
- **Saltidin® Combi Sun 15% milk**
- **Saltidin® Combi Sun 15% spray emulsion**

4. Customer information

Saltidin® Combi Sun is a water-resistant formulation with 15% Saltidin® and UV-A/UV-B protection patented by Saltigo GmbH.

To get access to the details of the Combi Sun formulation, please contact your local representative.

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