

**MINISTRY OF HEALTH AND PUBLIC ASSISTANCE
NATIONAL INSTITUTE OF HYGIENE
"RAFAEL RANGEL"**

**TOXICITY ASSAY OF THE PRODUCT
"NOPIKEX SOAP REPELLENT"**

ADDENDUM

Species: Rat

Sex: Males and females, nulliparous and nongravid.

Strain: Wistar.

Method of Administration: Inhalation

Origin: Bioterium Department National Institute of Hygiene Rafael Rangel

Diet: Ratarina, commercial feed from by Protinal®, potable drinking water ad libitum

Environmental Temperature: 23°C (± 2°C).
Relative Humidity: 67%.
Conditions: Light Periods: 12 hours. Periods of Darkness: 12 hours.
Animals separated by numbers and sex in steel cages with rice husks as bedding.

Number of Concentrations: One

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Time
of Exposure: Four hours

Group Control: One

Number of Animals
Per Concentration: Ten (5 females and 5 males)

**Corporal Weight Register (g) of the Animals
Concentration of the Assay**

Concentration: 197 mg/liter of air

| RAT / DAY | 1 | 7 | 14 |
|------------------|----------|----------|-----------|
| 1 | 238 | 265 | 297 |
| 2 | 241 | 269 | 302 |
| 3 | 230 | 260 | 295 |
| 4 | 249 | 276 | 310 |
| 5 | 248 | 276 | 311 |
| 6 | 236 | 264 | 292 |
| 7 | 242 | 269 | 298 |
| 8 | 240 | 269 | 297 |
| 9 | 231 | 260 | 291 |
| 10 | 239 | 267 | 295 |

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Control Group: Distilled water

| RAT / DAY | 1 | 7 | 14 |
|------------------|----------|----------|-----------|
| 1 | 235 | 262 | 297 |
| 2 | 237 | 265 | 299 |
| 3 | 241 | 270 | 303 |
| 4 | 232 | 262 | 295 |
| 5 | 250 | 280 | 314 |
| 6 | 243 | 271 | 300 |
| 7 | 230 | 257 | 287 |
| 8 | 242 | 270 | 301 |
| 9 | 244 | 272 | 300 |
| 10 | 236 | 262 | 291 |

Table of results:

| CONCENTRACIÓN MG/L | No. Dead Animals | No. Live Animals | Dead Accumulated | Live Accumulated | % Mortality |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------|
| 0 | 0 | 10 | 0 | 10 | 0 |
| 197 | 0 | 10 | 0 | 10 | 0 |

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The results obtained in the Acute Inhalation Toxicity Assay and the conclusions reported in the test are transcribed as follows:

"At the concentration used, in the conditions of the assay and during the period that the observation lasted, there were no signs of intoxication, nor were there any deaths in the animals treated with the sample, with regards to the control animals.

"In regards to the results obtained in the assays conducted, in their experimental conditions; the product is considered nontoxic through dermal and by inhalation for the rat species, at the dosage used in this assay. Also, it is not considered irritant to rabbit skin, but it is considered moderately irritant in degree and duration to the ocular mucous membrane of the rabbit".