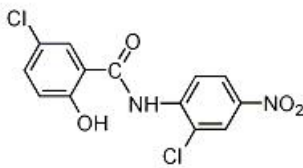


## TECHNICAL DATA SHEET OF Niclosamide ethanolamine salt 97% TC

| Chemistry identity               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical name                    | Niclosamide ethanolamine salt 97% TC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| IUPAC (Niclosamide)              | 2',5-dichloro-4'-nitrosalicylanilide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CAS No                           | 1420-04-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Structure formula                |  <p>Niclosamide</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Physical and chemical properties |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Appearance                       | Yellow crystal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Content                          | 97% min (w/w)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Water                            | 1.0% max. (w/w)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Solubility                       | In water 0.005 (pH 4), 0.2 (pH 7), 40 (pH 9) (all in mg/l, 20 °C). (For Niclosamide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mammalian toxicity               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Acute oral                       | LD <sub>50</sub> (rat) >5000 mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Acute percutaneous               | LD <sub>50</sub> (rat) >2000 mg/kg (for 70% WP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Acute inhalation                 | LC <sub>50</sub> (4 × 1 h) 3630–8224 mg/m <sup>3</sup> air (as 70% WP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Environment fate                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Environment fate                 | <p><b>Animals</b> Following oral administration, <sup>14</sup>C-niclosamide was absorbed and metabolised in the rat. The major metabolite in the urine was the reduced compound 2',5-dichloro-4'-aminosalicylanilide ([10558-45-9]); several labile conjugates were also detected. The major constituent in the faeces was unchanged niclosamide, although considerable amounts of 2',5-dichloro-4'-aminosalicylanilide were also present; parent compound is present not only because of non-absorption, but also because of release from the biliary conjugate by β-glucuronidase of the intestinal microflora. Another study indicates that niclosamide is very poorly absorbed after dermal application. Radioactivity in the urine and faeces after application of <sup>14</sup>C-niclosamide accounted for &lt;2% and 10% of the labelled compound applied to pig and rat skin, respectively; c. 20% was recovered from the area of application.</p> <p><b>Soil/Environment</b> There was a rapid decline in niclosamide residues in paddy water; degradation followed pseudo-first order kinetics, DT50 0.3 d. At harvest, niclosamide residues were below the detection limit of 0.03 mg/kg in rice leaves, stalk and grain, indicating that the use of niclosamide as a molluscicide in rice production does not lead to persistent residues in the rice paddy ecosystem.</p> |
| Handling and storage             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



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|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling and Storage</b> | <p><b>Handling:</b> Read the label before use. Avoid contact with skin and eyes. Do not breathe spray. Avoid inhalation of high concentrations of vapours. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.</p> <p><b>Storage:</b> Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Keep away from water, acids, oxidising agents and certain metals (including gold, silver and brass). Store locked up. Do not store in buildings inhabited by people or animals</p> |
| <b>Package</b>              | 25kg drum or customized package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |