

Confidential: Proprietary information of Ivorychem Pte Ltd. Not to be disclosed to third parties without prior consent of Ivorychem Pte Ltd

READ THE ENTIRE LABEL BEFORE USING THIS PRODUCT.

USE ONLY IN ACCORDANCE WITH INSTRUCTIONS.

KEEP OUT OF REACH OF CHILDREN

## STRIKE



### INGREDIENTS

Acrylonitrile .....21% w/v  
Other ingredients .....79% w/v

STRIKE is a fumigant insecticide and miticide for the control of crop pests. It contains as its active ingredients: Acrylonitrile 21% and Carbon Tetrachloride 79%.

STRIKE is a ready-to-use insecticide for general control of a wide range of crop pests, especially in tobacco. However, it is incompatible and reactive with strong oxidizers, acids and alkalis; bromine; and amines. This pesticide is registered for restricted use, and its toxicity code is 1, which corresponds to a toxicity category of Danger.

Trade Names Of Other Firms: Trade names for products containing Acrylonitrile include Acritet, Caswell No. 010, ENT 54, Fumigrain and Ventox.

### Recommendations for Use

Crop	Application rate
Tobacco (seedbed)	64 g/m <sup>3</sup> in camera to the emptiness

### What is Acrylonitrile and how does it work?

#### Key Benefits of STRIKE:

- 1) Broad spectrum insecticide
- 2) Highly effective against pests, both in adult and larval stage
- 3) Low potential to leach to groundwater

#### PRECAUTIONS

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse. Keep children or pets away from treated area until dry.

#### SYMPTOMS OF POISONING

Irritation on skin or eyes.

#### MEDICAL TREATMENT

No specific antidote is available. Treatment is symptomatic.

#### FIRST AID

If on skin, remove contaminated clothes. Rinse and then rinse skin immediately with plenty of water and soap for 15-20 minutes. Call a poison control centre or doctor for treatment advice. If inhaled, move person for fresh air. If person is not breathing, call for an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes, first hold eye open and rinse with plenty of water for 15-20 minutes (remove contact lenses if easily possible). Call poison control center or doctor for treatment advice.

If ingested, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless told to do so by poison control center or doctor. Do not give anything to an unconscious person.

---

Tobacco (field)

0,9 kgf/cm<sup>2</sup> (28 plgs) during 5 hours

For More Details including effects on environment email [contact@ivorychem.com](mailto:contact@ivorychem.com) with Subject "STRIKE DETAILS"

More Details:

Toxicological Effects:

- **Acute Toxicity:** Workers exposed via inhalation to high levels of acrylonitrile for less than an hour experienced mucous membrane irritation, headaches, nausea, feelings of apprehension and nervous irritability; low grade anemia, leukocytosis, kidney irritation, and mild jaundice were also observed in the workers, with these effects subsiding with the ending of exposure. Symptoms associated with acrylonitrile poisoning include limb weakness, labored and irregular breathing, dizziness and impaired judgment, cyanosis, nausea, collapse, and convulsions. A child died after being exposed to acrylonitrile by inhalation, suffering from respiratory malfunction, lip cyanosis, and tachycardia before death. Several adults exposed to the same concentration of acrylonitrile exhibited eye irritation, but no toxic effects. Acute dermal exposure may cause severe burns to the skin in humans. Acute animal tests in rats, mice, rabbits, and guinea pigs have demonstrated acrylonitrile to have high acute toxicity from inhalation and high to extreme acute toxicity from oral or dermal exposure.
- **Signs and Symptoms of Poisoning:** Mucous membrane irritation, headaches, nausea, feelings of apprehension and nervous irritability
- **Chronic Toxicity:** In one study, headaches, fatigue, nausea, and weakness were frequently reported in chronically (long-term) exposed workers. In rats chronically exposed by inhalation, degenerative and inflammatory changes in the respiratory epithelium of the nasal turbinates and effects on brain cells have been observed. The Reference Concentration (RfC) for acrylonitrile is 0.002 milligrams per cubic meter (mg/m<sup>3</sup>) based on degeneration and inflammation of nasal respiratory epithelium in rats. The RfC is an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation

exposure to the human population (including sensitive subgroups) that is likely to be without appreciable risk of deleterious noncancer effects during a lifetime. It is not a direct estimator of risk but rather a reference point to gauge the potential effects. At exposures increasingly greater than the RfC, the potential for adverse health effects increases. Lifetime exposure above the RfC does not imply that an adverse health effect would necessarily occur. EPA has medium confidence in the study on which the RfC was based because, although it was a well-conducted chronic study in an appropriate number of animals, it was performed on only one species, did not identify a no-observed-adverse-effect level (NOAEL), was confounded by the early sacrifice of rats with large mammary gland tumors and the target organ (nasal turbinates) was examined only at the end of the study in relatively few animals; medium to low confidence in the database because of the lack of chronic or subchronic inhalation data in a second species, the lack of reproductive data by the inhalation route and the existence of an oral study showing reproductive effects; and, consequently, medium to low confidence in the RfC. EPA has calculated a provisional Reference Dose (RfD) of 0.001 milligrams per kilogram body weight per day (mg/kg/d) for acrylonitrile based on decreased sperm counts in mice. The provisional RfD is a value that has had some form of Agency review, but it does not appear on IRIS.

- **Reproductive Effects:** No studies were located regarding reproductive effects in humans or animals following inhalation exposure to acrylonitrile
- **Teratogenic Effects:** Not available
- **Mutagenic Effects:** Not available
- **Carcinogenic Effects:** Not available
- **Organ Toxicity:** No studies were located regarding health effects in humans associated with the oral ingestion of acrylonitrile.
- **Fate in Humans and Animals:** Not available

**ECOLOGICAL EFFECTS**

- **Effects on Fish:** 9300 ug/L 96 hour(s) LC50 (Mortality) Bluegill (*Lepomis macrochirus*)
- **Effects on Aquatic Organisms:** Not available
- **Effects on Other Animals (Nontarget species):** Not available

#### ENVIRONMENTAL FATE

- **Breakdown of Chemical in Soil and Groundwater:** Not available
- **Breakdown of Chemical in Surface Water:** Not available
- **Breakdown of Chemical in Vegetation:** Not available
- **Analytical Methods:** Not available

#### PHYSICAL PROPERTIES AND GUIDELINES

##### Physical Properties:

- **Appearance:** colorless to pale yellow liquid
- **Chemical Name:** 2-Propenenitrile, Acrylonitrile
- **CAS Number:** 107-13-1
- **Molecular Weight:** 53.1 g/mol
- **Water Solubility:** Not available
- **Solubility in Other Solvents:** isopropanol, ethanol, ether, acetone, and benzene
- **Boiling Point:** 77.3oC
- **Melting Point:** -82oC
- **Vapor Pressure:** 100 torr at 23oC
- **Partition Coefficient:** Not available
- **Adsorption Coefficient:** Not Available



IVORYCHEM PTE LIMITED  
 15 Beach Road #02-09  
 Beach Centre  
 Singapore 189677  
 Tel: +65 63377765  
 Fax: +65 63377730  
 contact@ivorychem.com  
 www.ivorychem.com

Company Registration No 200405572W

Company Registration No: 200405572W  
 Incorporated in the Republic of Singapore Under the Companies Act (Cap 50)