
REACTIVITY DATA

Chemical Stability: STABLE ABOVE FREEZING TEMPERATURE.

Incompatibility: ACIDIC AND STRONG OXIDIZERS.

Conditions of Reactivity: AVOID TEMPERATURES ABOVE 177 C.

Hazardous Decomposition Products: H₂S, NH₃, NO₂, SO₂

TOXICOLOGICAL PROPERTIES**Route of Entry:****Effects of Acute or Chronic Exposure:**

SKIN CONTACT – SLIGHTLY IRRITATING TO SKIN. SYMPTOMS OF THIRAM ABSORPTION MAY INCLUDE HEADACHE, INSOMNIA, NERVOUS DISORDERS AND IN SEVERE CASES KIDNEY PAIN, DIZZINESS, LOSS OF MEMORY AND TUMORS.

EYE CONTACT – IRRITATION TO EYES.

INHALATION - VAPOUR OR SPRAY MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF NOSE, THROAT AND LUNGS.

INGESTION – SYMPTOMS SIMILAR TO INHALATION. CONSUMPTIONS OF ALCOHOL WITHIN 24 HOURS BEFORE OR AFTER WORKING WITH THIRAM MAY CAUSE UNPLEASANT SIDE EFFECTS. SYMPTOMS OF THIRAM ABSORPTION MAY INCLUDE HEADACHE, INSOMNIA, NERVOUS DISORDERS AND IN SEVERE CASES KIDNEY PAIN, DIZZINESS, LOSS OF MEMORY AND TUMORS. ALCOHOL INTOLERANCE MAY RESULT ON EXPOSURE SYMPTOMS INCLUDE FLUSHING OF FACE AND NECK, FOLLOWED BY RAPID HEARTBEAT, NAUSEA, VOMITING, HEADACHE AND LOW BLOOD PRESSURE.

Exposure Limits:

5 mg/m³

Synergistic Products:

NA

Sensitization / Irritancy: THIRAM IS A POTENTIAL SKIN SENSITIZER.

Carcinogenicity / Teratogenicity / Mutagenicity / Reproductive Effects:

NO INCREASE IN TUMOUR INCIDENCE WAS NOTED IN MICE FED THIRAM FOR 18 MONTHS. EFFECTS WERE SEEN ON BODY WEIGHT

NO TERATONGENIC EFFECTS WERE SEEN IN A RABBIT STUDY. IN A RAT STUDY MATERNAL TOXICITY, AS EVIDENCED BY DECREASED WEIGHT GAIN, WAS SEEN ALONG WITH AN INCREASE INCIDENCE OF FETUSES WITH SMALL RIBS

IN A RAT STUDY, A DECREASE IN MATERNAL AND OFFSPRING BODY WEIGHT WAS SEEN. NO EFFECTS ON

REPRODUCTIONS WERE SEEN.

THIRAM PRODUCED POSITIVE RESULTS IN AMES MUTATION ASSAYS.

PREVENTIVE MEASURES:**Personal Protective Equipment:**

RESPIRATORY – WEAR PESTICIDE RESPIRATOR IF THERE IS EXPOSURE TO SPRAY OR MISTS.

EYES- WEAR SPLASH GOGGLES TO AVOID EYE CONTACT..

GLOVES - WEAR IMPERMEABLE GLOVES TO AVOID SKIN CONTACT.

Engineering Controls:**Leak or Spill Procedure:**

ABSORB SPILL WITH INERT MATERIALS SUCH AS SAND OR VERMICULITE. REPORT LARGE SOILS TO 613-996-6666. WEAR PROTECTIVE CLOTHING WHEN HANDLING SPILLS. PREVENT RUN-OFF TO WATERWAYS.

PREVENTIVE MEASURES (continued)**Disposal:**

DISPOSE OF IN NON CROP AREAS AWAY FROM WATERWAYS, IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND LOCAL REGULATIONS.

Handling Procedures and Equipment:

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT TAKE INTERNALLY. UPON CONTACT WITH SKIN OR EYES, WASH WITH SOAP AND WATER. WEAR IMPERVIOUS GLOVES WHEN HANDLING. BECAUSE OF UNPLEASANT SIDE EFFECTS, ALCOHOLIC BEVERAGES SHOULD BE AVOIDED 24 HOURS BEFORE OR AFTER WORKING WITH SKOOT- SYMPTOMS INCLUDE FLUSHING OF FACE AND NECK, RAPID HEARTBEAT, NAUSEA, VOMITING, HEADACHE AND LOW BLOOD PRESSURE.

Storage Requirements:

KEEP OUT OF REACH OF CHILDREN. KEEP AWAY FROM HEAT AND COMBUSTIBLE MATERIAL. STORE AWAY FROM SUNLIGHT. STORE AWAY FROM FOOD OR ANIMAL FEEDS. DO NOT FREEZE.

Shipping Information:

NOT REGULATED BY TDG

ADDITIONAL INFORMATION:

THIRAM IS TOXIC TO FISH

FIRST AID MEASURES:

SKIN - WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS

EYES - FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, SEEK MEDICAL ADVICE.

INHALATION – MOVE SUBJECT TO FRESH AIR. IF BREATHING HAS STOPPED ADMINISTER ARTIFICIAL RESPIRATION. SEEK MEDICAL ATTENTION IMMEDIATELY.

INGESTION – IF VICTIM IS CONSCIOUS GIVE 1-2 GLASSES OF WATER AND INDUCE VOMITING. DO NOT GIVE MILK, OILS OR FATS WHICH ENHANCE ABSORPTION. DO NOT GIVE ANYTHING BY MOUTH OR INDUCE VOMITING IF PERSON IS UNCONSCIOUS. SEEK MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIAN – IF REACTION WITH ALCOHOL OCCURS, TREAT AS DISULFIRAM-ALCOHOL REACTION

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PREPARATION INFORMATION**Department:**

TECHNICAL

Date:

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