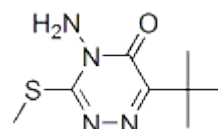


4-Amino-6-tert-butyl-3-(methylthio)-1,2,4-triazin-5(4H)-one(21087-64-9)

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Product Identification

【Product Name】

4-Amino-6-tert-butyl-3-(methylthio)-1,2,4-triazin-5(4H)-one

【Synonyms】

4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one

4-Amino-6-tert-butyl-3-methylthio-as-triazin-5-one

Lexone

Sencor

【CAS】

21087-64-9

【Formula】

C₈H₁₄N₄O_S

【Molecular Weight】

214.29

【EINECS】

244-209-7

【RTECS】

XZ2990000

【RTECS Class】

Agricultural Chemical and Pesticide; Mutagen; Reproductive Effector

【Merck】

12, 6239

【Beilstein/Gmelin】

746650

【Beilstein Reference】

5-26-06-00432

【EC Index Number】

606-034-00-8

【EC Class】

Harmful; Dangerous for the Environment

Physical and Chemical Properties

【Appearance】

Colorless crystalline solid.

【Solubility in water】

1.2 g/L

【Melting Point】

126

【Boiling Point】

132 (0.1 torr)

【Vapor Pressure】

.0000004

【Density】

1.24 g/cm³

【pKa/pKb】

1.0 (pKa)

【Partition Coefficient】

1.7

【Usage】

Herbicide.

First Aid Measures

【Ingestion】

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

【Inhalation】

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

【Skin】

Remove contaminated clothing and wash exposed area thoroughly with soap and water. A physician should examine the area if irritation or pain persists.

【Eyes】

Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

Handling and Storage

【Storage】

Estimated shelf life in excess of 2 yr under normal storage conditions store in a cool, dry place. Do not contaminate water or feed by storage or disposal.

【Handling】

Untrained persons should not handle this chemical or its containers. Avoid contact with eyes, skin and clothing. Avoid breathing vapors.. For laboratory use only.

Hazards Identification

【Inhalation】

Symptoms: In animals: central nervous system depressant/depression; thyroid, liver enzyme changes Target Organs: central nervous system, thyroid, liver.

【Skin】

See inhalation.

【Eyes】

See inhalation.

【Ingestion】

See inhalation.

Exposure Controls/Personal Protection

【Personal Protection】

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Whre chemical resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

【Respirators】

Use appropriate OSHA/MSHA approved respirator.

【Exposure Effects】

Coma was reported following ingestion of an herbicide containing atrazine, aminotriazole, ethylene glycol, and formaldehyde. Muscle tremors, tetany, and ataxia have been reported in animals following ingestions of triazine herbicides.

【Exposure limit(s)】

TLV: ppm; 5 mg/m³ (as TWA) (ACGIH 1997). OSHA PEL: none NIOSH REL: TWA 5 mg/m³

【Poison Class】

Fire Fighting Measures

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use agent most appropriate to extinguish fire.

【Fire Potential】

Nonflammable

Accidental Release Measures

【Small spills/leaks】

Evacuate area. Wear OSHA regulated equipment. Ventilate area. Sweep up and place in a n approved container. Hold for disposal. Wash contaminated surfaces to remove any residue.

Stability and Reactivity

【Stability】

Stable at normal temperatures and pressures.

【Incompatibilities】

Strong oxidizing agents.

【Decomposition】

When heated to decomposition it emits very toxic fumes of nitrogen oxides and sulfur oxides.