U.S. Pharmacopeial U.S. Pharmacopeial Convention

SAFETY DATA SHEET

1. Identification

Product identifier Amitraz Related Compound B

Other means of identification

Catalog number 1028028

Chemical name N'-(2,4-Dimethylphenyl)-N-methylformimidamide

Synonym(s) Methanimidamide, N-(2,4-dimethylphenyl)-N'-methyl-

Recommended use Specified quality tests and assay use only.

Recommended restrictions Not for use as a drug. Not for administration to humans or animals.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name U. S. Pharmacopeia
Address 12601 Twinbrook Parkway

Rockville MD 20852-1790 United States

Telephone RS Technical Services

Website www.usp.org

E-mail RSTECH@usp.org

Emergency phone number CHEMTREC within US &

Canada

CHEMTREC outside US &

1-800-424-9300 +1 703-527-3887

301-816-8129

Canada

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 3

Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Toxic if swallowed. May cause an allergic skin reaction. May cause drowsiness or dizziness.

Precautionary statement

Prevention Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated

work clothing must not be allowed out of the workplace. Wear protective gloves.

Response If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin: Wash with plenty of

water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a

poison center/doctor if you feel unwell.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Other hazards which do not result in classification

None known.

3. Composition/information on ingredients

Substance

Chemical name Common name and synonyms **CAS** number % Amitraz Related Compound B Methanimidamide, N-(2,4-dimethylphenyl)-33089-74-6 100 N'-methyl-

4. First-aid measures

Inhalation Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on

unaffected skin. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

Most important

symptoms/effects, acute and

delayed

May cause allergic skin reaction. Narcotic effects...

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry chemical or CO2.

None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for firefighters Wear suitable protective equipment.

Fire-fighting

equipment/instructions

As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Precautions for safe handling

As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.

Conditions for safe storage, including any incompatibilities

Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure controls/personal protection

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Exposure guidelines No exposure standards allocated.

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Appropriate engineering

controls

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Skin protection

Hand protection

Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact.

Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

Other

For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.

Respiratory protection

Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place

(applicable U.S. regulation OSHA 29 CFR 1910.134).

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Off-white powder.

Physical state Solid.
Form Powder.

Odor Odorless.

Odor threshold Not available.
pH Not available.

Melting point/freezing point 159.8 - 161.6 °F (71 - 72 °C)

Initial boiling point and boiling

range

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure

Vapor density

Relative density

Auto-ignition temperature

Decomposition temperature

Viscosity

0.003 kPa at 25 °C

Not available.

Not available.

Not available.

Not available.

Other information

Molecular formula C10H14N2 Molecular weight 162.23

10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid None known.

Incompatible materials Strong oxidizing agents. Alkalis.

products

Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx.

11. Toxicological information

Hazardous decomposition

Information on likely routes of exposure

Toxic if swallowed. Ingestion

Due to lack of data the classification is not possible. Inhalation

Skin contact May cause an allergic skin reaction.

Eve contact Due to lack of data the classification is not possible.

Symptoms related to the physical, chemical, and toxicological characteristics Dizziness. Drowsiness.

Toxic if swallowed. **Acute toxicity**

Product Species Test Results

Amitraz Related Compound B (CAS 33089-74-6)

Oral

LD50 Mouse 150 mg/kg Rat 200 mg/kg

Skin corrosion/irritation Due to lack of data the classification is not possible. Serious eve damage/eve

irritation

Due to lack of data the classification is not possible.

Respiratory or skin sensitization

Respiratory sensitization Due to lack of data the classification is not possible.

May cause an allergic skin reaction. Skin sensitization

Germ cell mutagenicity Due to lack of data the classification is not possible.

Data from germ cell mutagenicity tests were not found.

Mutagenicity

DNA damage test in Chinese hamster lung fibroblasts

Result: Negative. S. typhimurium assay Result: Negative.

Due to lack of data the classification is not possible. This material is not considered to be a Carcinogenicity

carcinogen by IARC, NTP, or OSHA.

Reproductive toxicity Due to lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

Due to lack of data the classification is not possible.

Based on available data, the classification criteria are not met. **Aspiration hazard**

12. Ecological information

No ecotoxicity data noted for the ingredient(s). **Ecotoxicity**

Persistence and degradability No data is available on the degradability of this product.

Not available **Bioaccumulative potential** Not available Mobility in soil Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the

user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

for hazardous waste.

Local disposal regulations Not available Hazardous waste code Not regulated.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Material name: Amitraz Related Compound B

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN2811 UN number

UN proper shipping name Transport hazard class(es) Toxic solid, organic, n.o.s. (Methanimidamide, N-(2,4-dimethylphenyl)-N'-methyl-)

Class 6.1 Subsidiary risk Ш **Packing group**

IATA

UN number UN2811

UN proper shipping name Transport hazard class(es) Toxic solid, organic, n.o.s. (Methanimidamide, N-(2,4-dimethylphenyl)-N'-methyl-)

Class 6.1 Subsidiary risk Ш Packing group

Other information Passenger and cargo

aircraft

Allowed.

Allowed. Cargo aircraft only Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not available.

DOT; IATA



15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

One or more components are not listed on TSCA.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Administration (FDA) Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

 Issue date
 06-28-2013

 Revision date
 11-24-2015

Version # 04

United States & Puerto Rico

Further information Not available.

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Toxic Substances Control Act (TSCA) Inventory

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herein.

Revision Information Hazard(s) identification: Hazard statement

Hazard(s) identification: Response

Physical & Chemical Properties: Multiple Properties
Transport Information: Material Transportation Information

GHS: Classification

Material name: Amitraz Related Compound B

USP SDS US

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