



# AMINOPYRINE (N,N-DIMETHYL-13C2, 99%)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 2.3

CLM-630

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|                |  |
|----------------|--|
| Product form   | : Substance                            |
| Substance name | : AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) |
| EC-No.         | : 200-365-8                            |
| CAS-No.        | : 60433-90-1                           |
| Product code   | : CLM-630                              |
| Formula        | : *C2C11H17N3O                         |
| Synonyms       | : 4-Dimethylaminoantipyrine            |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

|                                  |                             |
|----------------------------------|-----------------------------|
| Main use category                | : Professional use          |
| Industrial/Professional use spec | : For professional use only |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                                     |      |
|-------------------------------------|------|
| Acute Tox. 3 (Oral)                 | H301 |
| Acute Tox. 4 (Dermal)               | H312 |
| Acute Tox. 4 (Inhalation:dust,mist) | H332 |
| Skin Irrit. 2                       | H315 |
| Eye Irrit. 2                        | H319 |
| STOT SE 3                           | H335 |

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/37/38  
Xn; R20/21  
T; R25

Full text of R-phrases: see section 16

#### GHS-US classification

|                           |      |
|---------------------------|------|
| Acute Tox. 3 (Oral)       | H301 |
| Acute Tox. 4 (Dermal)     | H312 |
| Acute Tox. 4 (Inhalation) | H332 |
| Skin Irrit. 2             | H315 |
| Eye Irrit. 2A             | H319 |
| STOT SE 3                 | H335 |

Full text of H statements : see section 16

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### Adverse physicochemical, human health and environmental effects

Blood, Bone marrow.

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS06

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H301 - Toxic if swallowed.  
H312+H332 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

Precautionary statements (CLP) :

P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.  
P264 - Wash Both hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective clothing, protective gloves.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS06

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H301 - Toxic if swallowed.  
H312+H332 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

Precautionary statements (GHS-US) :

P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.  
P264 - Wash Both hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective clothing, protective gloves.  
P301+P310 - If swallowed: Immediately call a poison center/doctor/...  
P302+P352 - If on skin: Wash with plenty of water/...  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a poison center/doctor/... if you feel unwell  
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)  
P330 - Rinse mouth.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to Comply with applicable regulations

## 2.3. Other hazards

No additional information available

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

| Name                                 | Product identifier                         | %   | Classification according to Directive 67/548/EEC |
|--------------------------------------|--|-----|--|
| AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) | (CAS-No.) 60433-90-1<br>(EC-No.) 200-365-8 | 100 | Xi; R36/37/38<br>Xn; R20/21<br>T; R25            |

| Name                                 | Product identifier                         | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--------------------------------------|--|-----|---|
| AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) | (CAS-No.) 60433-90-1<br>(EC-No.) 200-365-8 | 100 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 |

Full text of R- and H-statements: see section 16

| Name   | Product identifier   | %   | GHS-US classification  |
|--|----------------------|-----|--|
| AMINOPYRINE (N,N-DIMETHYL-13C2, 99%)<br>(Main constituent) | (CAS-No.) 60433-90-1 | 100 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Move out of dangerous area. Consult a physician and show this safety data sheet.                              |
| First-aid measures after inhalation   | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| First-aid measures after skin contact | : Wash with soap and plenty of water. Consult a physician.  |
| First-aid measures after eye contact  | : Flush eye with water for 15 minutes. Get medical attention.   |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.           |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : May be harmful if inhaled. May cause respiratory tract irritation.   |
| Symptoms/effects after skin contact | : May be harmful if absorbed through the skin. Causes skin irritation. |
| Symptoms/effects after eye contact  | : Causes eye irritation.   |
| Symptoms/effects after ingestion    | : Toxic if swallowed.  |

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

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### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temperature away from light and moisture.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Handle with gloves.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                                      |
|--|--------------------------------------|
| Physical state                             | : Solid                              |
| Appearance                                 | : Solid                              |
| Molecular mass                             | : 233.28 g/mol                       |
| Colour                                     | : No data available                  |
| Odour                                      | : No data available                  |
| Odour threshold                            | : No data available                  |
| pH   | : No data available                  |
| Relative evaporation rate (butylacetate=1) | : No data available                  |
| Melting point                              | : 107 - 109 °C (225 - 228 °F) - lit. |
| Freezing point                             | : No data available                  |
| Boiling point                              | : No data available                  |
| Flash point                                | : No data available                  |
| Auto-ignition temperature                  | : No data available                  |
| Decomposition temperature                  | : No data available                  |
| Flammability (solid, gas)                  | : No data available                  |
| Vapour pressure                            | : No data available                  |
| Relative vapour density at 20 °C           | : No data available                  |
| Relative density                           | : No data available                  |
| Solubility                                 | : No data available                  |

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|                      |                     |
|----------------------|---------------------|
| Log Pow              | : No data available |
| Log Kow              | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic   | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits     | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Six months after receipt if stored as stated in "Storage" section. Re-QC after six months.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases.

### 10.6. Hazardous decomposition products

Formed under fire conditions: Carbon oxides, nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Harmful in contact with skin. Inhalation:dust,mist: Harmful if inhaled.

| AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) (60433-90-1) |                           |
|---|---------------------------|
| LD50 oral rat                                     | 285 mg/kg                 |
| ATE CLP (oral)                                    | 285.000 mg/kg bodyweight  |
| ATE CLP (dermal)                                  | 1100.000 mg/kg bodyweight |
| ATE CLP (dust,mist)                               | 1.500 mg/l/4h             |

|                                     |   |
|-------------------------------------|---|
| Skin corrosion/irritation           | : Causes skin irritation.   |
| Serious eye damage/irritation       | : Causes serious eye irritation.  |
| Respiratory or skin sensitisation   | : Not classified  |
| Germ cell mutagenicity              | : Not classified  |
| Carcinogenicity                     | : Not classified  |
| Reproductive toxicity               | : Not classified  |
| STOT-single exposure                | : May cause respiratory irritation.<br>Inhalation - May cause respiratory irritation. |
| STOT-repeated exposure              | : Not classified  |
| Aspiration hazard                   | : Not classified  |
| Symptoms/effects after inhalation   | : May be harmful if inhaled. May cause respiratory tract irritation.                  |
| Symptoms/effects after skin contact | : May be harmful if absorbed through the skin. Causes skin irritation.                |
| Symptoms/effects after eye contact  | : Causes eye irritation.  |
| Symptoms/effects after ingestion    | : Toxic if swallowed.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) (60433-90-1) |                |
|---|----------------|
| Persistence and degradability                     | Not available. |

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### 12.3. Bioaccumulative potential

#### AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) (60433-90-1)

Bioaccumulative potential : Not available.

### 12.4. Mobility in soil

#### AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) (60433-90-1)

Ecology - soil : Not available.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No.(DOT) : UN2811

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Toxic solids, organic, n.o.s.  
Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132  
Hazard labels (DOT) : 6.1 - Poison



DOT Symbols : G - Identifies PSN requiring a technical name  
Packing group (DOT) : III - Minor Danger  
DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).  
IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.  
T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)  
TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 153  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 213  
DOT Packaging Bulk (49 CFR 173.xxx) : 240  
Marine pollutant : No

### 14.3. Additional information

Other information : No supplementary information available.

### Overland transport

Packing group (ADR) : III

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Class (ADR) : 6.1 - Toxic substances  
Hazard identification number (Kemler No.) : 60  
Classification code (ADR) : T2  
Danger labels (ADR) : 6.1 - Toxic substances



Orange plates :

Tunnel restriction code (ADR) : E  
Limited quantities (ADR) : 5kg  
EAC code : 2X  
Excepted quantities (ADR) : E1

### Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
MFAG-No : 154

### Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 100 kg  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 200 kg  
Civil Aeronautics Law : Toxic and infectious substances/Toxic substances(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) (60433-90-1)

|                                     |  |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
|-------------------------------------|--|

### 15.2. International regulations

#### CANADA

#### AMINOPYRINE (N,N-DIMETHYL-13C2, 99%) (60433-90-1)

Listed on the Canadian DSL (Domestic Substances List)

### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

#### AMINOPYRINE (N,N-DIMETHYL-13C2, 99%)(60433-90-1)

|   |    |
|---|----|
| U.S. - California - Proposition 65 - Carcinogens List       | No |
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
| U.S. - California - Proposition 65 - Reproductive           | No |

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| AMINOPYRINE (N,N-DIMETHYL-13C2, 99%)(60433-90-1)                  |  |
|---|--|
| Toxicity - Female   |  |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No   |
| State or local regulations  | RTK - U.S. - Pennsylvania - RTK (Right to Know) List<br>RTK - U.S. - New Jersey - Right to Know Hazardous Substance List<br>This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. |

## SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

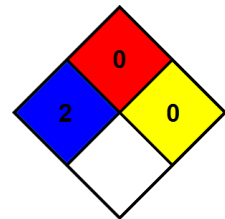
Full text of R-, H- and EUH-statements:

|                                     |  |
|-------------------------------------|--|
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3  |
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4  |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4   |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H301                                | Toxic if swallowed.  |
| H312                                | Harmful in contact with skin.  |
| H315                                | Causes skin irritation.  |
| H319                                | Causes serious eye irritation.   |
| H332                                | Harmful if inhaled.  |
| H335                                | May cause respiratory irritation.  |
| R20/21                              | Harmful by inhalation and in contact with skin   |
| R25                                 | Toxic if swallowed   |
| R36/37/38                           | Irritating to eyes, respiratory system and skin  |
| T                                   | Toxic  |
| Xi                                  | Irritant   |
| Xn                                  | Harmful  |

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



## HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

CIL Substance SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*