

Revision: 12/27/2017

| | | brding to Regulation (EC) No. 1907/2006 as amended by | | | |
|----|--|---|--|--|--|
| | Section 1. I | dentification of the Substance/Mixture and of the | he Company/Undertaking | | |
| .1 | Product Code: | 23904 | | | |
| | Product Name: | Apraclonidine (hydrochloride) | | | |
| | Synonyms: | 2,6-dichloro-N1-(4,5-dihydro-1H-imidazol-2-yl) | -1,4-benzenediamine, monohydrochloride; | | |
| 2 | Relevant identified uses of | f the substance or mixture and uses advised ag | ainst: | | |
| | Relevant identified uses: | For research use only, not for human or veteri | nary use. | | |
| 3 | Details of the Supplier of the Safety Data Sheet: | | | | |
| | Company Name: | Cayman Chemical Company | | | |
| | | 1180 E. Ellsworth Rd. | | | |
| | | Ann Arbor, MI 48108 | | | |
| | Web site address: | www.caymanchem.com | | | |
| | Information: | Cayman Chemical Company | +1 (734)971-3335 | | |
| ŀ | Emergency telephone num | | | | |
| | Emergency Contact: | CHEMTREC Within USA and Canada: | +1 (800)424-9300 | | |
| | | CHEMTREC Outside USA and Canada: | +1 (703)527-3887 | | |
| | | Section 2. Hazards Identific | ation | | |
| 1 | Classification of the Subst | ance or Mixture: | | | |
| • | | | | | |
| | Acute Toxicity: Inhalatio | | | | |
| | Acute Toxicity: Oral, Cat | | | | |
| | ,,,,,,,,,,,,,,,,, | egory 3 | | | |
| | Acute Toxicity: Skin, Ca | | | | |
| | - | tegory 3 | | | |
| | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye | tegory 3 e Irritation, Category 2 | | | |
| .2 | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye | tegory 3 | | | |
| 2 | Acute Toxicity: Skin, Ca Serious Eye Damage/Eye Specific Target Organ To | tegory 3 e Irritation, Category 2 | | | |
| 2 | Acute Toxicity: Skin, Ca Serious Eye Damage/Eye Specific Target Organ To | tegory 3 e Irritation, Category 2 | | | |
| 2 | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye Specific Target Organ To Label Elements: | tegory 3 e Irritation, Category 2 oxicity (repeated exposure), Category 1 | | | |
| 2 | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye Specific Target Organ To Label Elements: GHS Signal Word: | tegory 3 e Irritation, Category 2 oxicity (repeated exposure), Category 1 | | | |
| 2 | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: | tegory 3 e Irritation, Category 2 oxicity (repeated exposure), Category 1 Contemporation of the second seco | | | |
| 2 | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. | tegory 3 e Irritation, Category 2 oxicity (repeated exposure), Category 1 Danger h skin. | | | |
| 2 | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with | tegory 3 e Irritation, Category 2 oxicity (repeated exposure), Category 1 Danger h skin. | | | |
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| 2 | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic if swallowed. H311: Toxic in contact with H319: Causes serious eye H331: Toxic if inhaled. H372: Causes damage to GHS Precaution Phrases P260: Do not breathe {dus P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases | tegory 3 e Irritation, Category 2 posicity (repeated exposure), Category 1 Danger h skin. e irritation. organs through prolonged or repeated exposure. st/fume/gas/mist/vapors/spray}. pughly after handling. powes/protective clothing/eye protection/face protection | | | |
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| 22 | Acute Toxicity: Skin, Cat Serious Eye Damage/Eye Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic if swallowed. H311: Toxic in contact with H319: Causes serious eye H331: Toxic if inhaled. H372: Causes damage to GHS Precaution Phrases P260: Do not breathe {dus P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P301+310: IF SWALLOW P302+352: IF ON SKIN: W | tegory 3 e Irritation, Category 2 oxicity (repeated exposure), Category 1 Danger h skin. e irritation. organs through prolonged or repeated exposure. st/fume/gas/mist/vapors/spray}. oughly after handling. oves/protective clothing/eye protection/face protection bush yith plenty of soap and water. Remove victim to fresh air and keep at rest in a pos | r doctor/physician. sition comfortable for breathing. | | |
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Multi-region format



| 0 | 0220- | Dingo mouth | | | | | |
|---------------|---|----------------------------------|---|-------------------------|-------------------------|----------------------------------|--|
| | | Rinse mouth. | | - 44 43 | | | |
| | P337+313: If eye irritation persists, get medical advice/attention. P361+364: Take off immediately all contaminated clothing and wash it before reuse. | | | | | | |
| | | | | | | | |
| | | Storage and Dispo | | | | | |
| | | | for Storage and Section 13 for | - | | | |
| | | e Human Health | Causes damage to organs the | | repeated exposu | ire. | |
| | Effects | and Symptoms: | Causes serious eye irritation | | | | |
| | | | Material may be irritating to t | | anes and upper re | spiratory tract. | |
| | | | May cause skin or respirator | | | | |
| | | | Toxic if inhaled, swallowed, o | | | | |
| | | | To the best of our knowledge | e, the toxicological p | properties have no | ot been thoroughly investigated. | |
| | | Sect | tion 3. Composition | /Information | on Ingredie | ents | |
| CAS # RTEC | | Hazardous Comp REACH Registra | oonents (Chemical Name)/ tion No. | Concentration | EC No./ EC Index No. | GHS Classification | |
| 73218 | -79-8 | 1,4-Benzenediamine | 2, | 100.0 % | 642-954-6 | Acute Tox.(O) 3: H301 | |
| CZ1582 | 2000 | | -dihydro-1H-imidazol-2-yl)-, | | NA | Acute Tox.(D) 3: H311 | |
| | | hydrochloride (1:1) | | | | Eye Damage 2A: H319 | |
| | | | | | | Acute Tox.(I) 3: H331 | |
| | | | | | | STOT (RE) 1: H372 | |
| | | | Section 4. Fi | rst Aid Meas | ures | | |
| 4.1 | Descrip | otion of First Aid | | | | | |
| | Measu | res: | | | | | |
| | In Case | e of Inhalation: | Remove to fresh air. If not bro | eathing, give artificia | al respiration or gi | ive oxygen by trained personnel. | |
| | Get immediate medical atte | | | tion. | | | |
| | In Case | of Skin Contact: | Immediately wash skin with s | oap and plenty of w | ater for at least 1 | 5 minutes. Remove contaminate | |
| | | | clothing. Get medical attentio | n if symptoms occu | r. Wash clothing I | pefore reuse. | |
| | In Case | of Eye Contact: | Hold eyelids apart and flush e | eyes with plenty of v | water for at least 1 | 15 minutes. Have eyes examined | |
| | | | and tested by medical persor | nnel. | | | |
| | In Case | e of Ingestion: | Wash out mouth with water provided person is conscious. Never give anything by mouth to an | | | | |
| · · | | | unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by | | | | |
| | | | medical personnel. | | | | |
| | | | Section 5. Fire | Fighting Me | asures | | |
| 5.1 | Suitabl | e Extinguishing | Use alcohol-resistant foam, o | carbon dioxide, wate | er, or dry chemica | l spray. | |
| | Media: | | Use water spray to cool fire-e | exposed containers | | | |
| | Unsuita | able Extinguishing | A solid water stream may be | inefficient. | | | |
| | Media: | | | | | | |
| 5.2 | Flamm | able Properties an | d No data available. | | | | |
| | Hazard | s: | | | | | |
| | | | No data available. | | | | |
| | Flash F | Pt: | No data. | | | | |
| | | ive Limits: | LEL: No data. | UEL: No d | lata. | | |
| | - | nition Pt: | No data. | | | | |
| | - | | | ained broathing and | aratus proceure a | demand (NIOSH approved or | |
| J.J | Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. | | | | | | |
| 5.3 | riie Fiç | gnang instructions | - | | - | | |



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| | Ś | Section 6. Accidental Release Measures | | | | |
|-------|---|--|--|--|--|--|
| 6.1 | Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation. | | | | | |
| | Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator | | | | | |
| | Emergency Procedures: | and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). | | | | |
| 6.2 | Environmental | Take steps to avoid release into the environment, if safe to do so. | | | | |
| | Precautions: | | | | | |
| 6.3 | Methods and Material For | Contain spill and collect, as appropriate. | | | | |
| | Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. | | | | | |
| | Up: | | | | | |
| | | Section 7. Handling and Storage | | | | |
| 7.1 | Precautions To Be Taken | Avoid breathing dust/fume/gas/mist/vapours/spray. | | | | |
| | in Handling: | Avoid prolonged or repeated exposure. | | | | |
| 7.2 | Precautions To Be Taken | Keep container tightly closed. | | | | |
| | in Storing: | Store in accordance with information listed on the product insert. | | | | |
| | Secti | on 8. Exposure Controls/Personal Protection | | | | |
| 8.1 | Exposure Parameters: | | | | | |
| 8.2 | Exposure Controls: | | | | | |
| 8.2.1 | Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne | | | | |
| | (Ventilation etc.): | levels below recommended exposure limits. | | | | |
| 8.2.2 | Personal protection equip | ment: | | | | |
| | Eye Protection: | Safety glasses | | | | |
| | Protective Gloves: | | | | | |
| | Other Protective Clothing:Lab coat | | | | | |
| | Respiratory Equipment | NIOSH approved respirator, as conditions warrant. | | | | |
| | (Specify Type): | | | | | |
| | Work/Hygienic/Maintenan | Do not take internally. | | | | |
| | ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety sho | | | | | |
| | | Wash thoroughly after handling. | | | | |
| | | No data available. | | | | |
| | Se | ction 9. Physical and Chemical Properties | | | | |
| 9.1 | Information on Basic Physi | cal and Chemical Properties | | | | |
| | Physical States: | []Gas []Liquid [X]Solid | | | | |
| | Appearance and Odor: | A solid | | | | |
| | pH: | No data. | | | | |
| | Melting Point: | No data. | | | | |
| | Boiling Point: | No data. | | | | |
| | Flash Pt: | No data. | | | | |
| | Evaporation Rate: | No data. | | | | |
| | Flammability (solid, gas): | No data available. | | | | |
| | Explosive Limits: | LEL: No data. UEL: No data. | | | | |
| | Vapor Pressure (vs. Air or | mm No data. | | | | |
| | Hg): | | | | | |
| | Vapor Density (vs. Air = 1) | No data. | | | | |
| | | | | | | |
| | | Multi-region format | | | | |



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| | Specific | Gravity (Water = | 1): No data. | | | | | | |
|------|---|-------------------|--|--|----------------|---------|--------------------|--|--|
| | Solubility in Water: Solubility Notes: | | No data. | No data. | | | | | |
| | | | Soluble (slightly) in: MeO | H; DMSO; | | | | | |
| | Octanol/ | Water Partition | No data. | | | | | | |
| | Coefficie | ent: | | | | | | | |
| | Autoigni | tion Pt: | No data. | | | | | | |
| | - | osition Temperat | | | | | | | |
| | Viscosit | - | No data. | | | | | | |
| 0.2 | | ormation | No data. | | | | | | |
| 9.2 | | | | | | | | | |
| | Percent | | No data. | | | | | | |
| | Molecula | ar Formula & Weig | ght: C9H10Cl2N4 • HCl 2 | 281.6 | | | | | |
| | | | Section 10. Stabilit | ty and Reacti | vity | | | | |
| 10.1 | Reactivi | t y: | No data available. | | | | | | |
| 10.2 | Stability | : | Unstable [] Stable [X] | | | | | | |
| 10.3 | Stability | Note(s): | Stable if stored in accordance wit | th information listed | on the product | insert. | | | |
| | Polymer | ., | Will occur [] Will not occur | | - | | | | |
| 10.4 | - | ns To Avoid: | No data available. | | | | | | |
| 10.5 | | | s strong oxidizing agents | | | | | | |
| 10.5 | To Avoid | - | strong oxidizing agents | | | | | | |
| 100 | | | | | | | | | |
| 10.6 | Hazardo | | carbon dioxide | | | | | | |
| | - | osition or | carbon monoxide | | | | | | |
| | Byprodu | icts: | hydrogen chloride | | | | | | |
| | | | nitrogen oxides | Jgen oxides | | | | | |
| | | | Section 11. Toxicol | ogical Informa | ation | | | | |
| 11.1 | Informat | ion on | The toxicological effects of this product have not been thoroughly studied. | | | | | | |
| | Toxicolo | gical Effects: | Apraclonidine (hydrochloride) - T | clonidine (hydrochloride) - Toxicity Data: Oral LD50 (rat): 38 mg/kg; Oral LD50 (mouse): 3 | | | | | |
| | | | mg/kg; | | | | | | |
| | Chronic | Toxicological | Apraclonidine (hydrochloride) - In | onidine (hydrochloride) - Investigated as a drug. | | | | | |
| | Effects: | | Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. | | | | | | |
| | | | ee actual entry in RTECS for complete information. | | | | | | |
| | | | Apraclonidine (hydrochloride) RT | ECS Number: CZ15 | 82000 | | | | |
| CAS | # | Hazardous Com | ponents (Chemical Name) | NTP | IARC | ACGIH | OSHA | | |
| 732 | 18-79-8 | 1,4-Benzenediam | | n.a. | n.a. | n.a. | n.a. | | |
| | | | 4,5-dihydro-1H-imidazol-2-yl)-, | | | | | | |
| | | hydrochloride (1: | 1) | | | | | | |
| | | Į | Section 12. Ecolog | nical Informat | ion | ļ | | | |
| 12.1 | Toxicity | | Avoid release into the environme | | | | | | |
| | | | Runoff from fire control or dilution water may cause pollution. | | | | | | |
| 12.2 | Persiste | noo and | No data available. | | | | | | |
| 12.2 | | | NO data avaliable. | | | | | | |
| 40.5 | Degrada | - | No. data any 2011 | | | | | | |
| 12.3 | Bioaccu | | No data available. | | | | | | |
| | Potentia | | | | | | | | |
| 12.4 | Mobility | in Soil: | No data available. | | | | | | |
| 12.5 | Results | of PBT and vPvB | No data available. | | | | | | |
| | assessm | nent: | | | | | | | |
| | | | | | | | /ulti-region forma | | |
| 1 | | | | | | | | | |



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| 12.6 Other ad | dverse effects: | No data available. | | | | | |
|--|---|-----------------------------------|-------------------------------|----------------------|--------------------------|--|--|
| | | Section 13. Dispos | al Considerat | tions | | | |
| 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. | | | | | | | |
| | | Section 14. Trans | sport Informat | tion | | | |
| 14.1 LAND T | RANSPORT (US D | OT): | | | | | |
| DOT Prope | r Shipping Name: | Toxic solids, organic, n.o.s. | (Apraclonidine (hydr | ochloride)) | | | |
| DOT Hazar | DOT Hazard Class: 6.1 POISON | | | | | | |
| UN/NA Nur | nber: | Packing Grou | up: | III | | | |
| 14.1 LAND T | RANSPORT (Euro | Poison 6 poean ADR/RID): | | | | | |
| | hipping Name: | Toxic solids, organic, n.o.s. | (Apraclonidine (hydr | ochloride)) | | | |
| UN Numbe | | 2811 | Packing Grou | | Ш | | |
| Hazard Cla | SS: | 6.1 - POISON | J | | | | |
| 14.3 AIR TR | ANSPORT (ICAO/I | ATA): | | | | | |
| ΙΟΑΟ/ΙΑΤΑ | Shipping Name: | Toxic solids, organic, n.o.s. | (Apraclonidine (hydr | ochloride)) | | | |
| UN Numbe | r: | 2811 | Packing Group: | | III | | |
| Hazard Cla | SS: | 6.1 - POISON | IATA Classification: | | 6.1 | | |
| Additional Tra | nsport | Transport in accordance with lo | cal, state, and federa | I regulations. | | | |
| Information: | | When sold in quantities of less t | than or equal to 1 mL | ., or 1 g, with an E | xcepted Quantity Code of | | |
| | | E1, E2, E4, or E5, this item mee | | - | - | | |
| | | Therefore packaging does not h | have to be labeled as | Dangerous Good | s/Excepted Quantity. | | |
| | | Section 15. Regul | atory Informa | tion | | | |
| EPA SARA (Sı | perfund Amendm | ents and Reauthorization Act o | of 1986) Lists | I | | | |
| CAS # | - | oonents (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) | | |
| 73218-79-8 | 1,4-Benzenediam 2,6-dichloro-N1-(4 hydrochloride (1:1 | ,5-dihydro-1H-imidazol-2-yl)-, | No | No | No | | |
| CAS # | Hazardous Comp | oonents (Chemical Name) | Other US EPA or | State Lists | | | |
| 73218-79-8 | 1,4-Benzenediam 2,6-dichloro-N1-(4 hydrochloride (1:1 | ,5-dihydro-1H-imidazol-2-yl)-, | CAA HAP,ODC: N PROP.65: No | o; CWA NPDES: | No; TSCA: No; CA | | |
| Regulatory Info | ormation | This SDS was prepared in acco | rdance with 29 CFR | 1910.1200 and Re | egulation (EC) | | |
| Statement: No.1272/2008. | | | | | | | |
| | | | | | | | |

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| Cayman | Apracioniune (nyurocinoriue) | Revision: 12/27/2017 |
|-------------------------------|---|--|
| | Section 16. Other Information | |
| Revision Date: | 12/27/2017 | |
| Additional Information About | No data available. | |
| This Product: | | |
| Company Policy or Disclaimer: | DISCLAIMER: This information is believed to be accurate and represe currently available to us. However, we make no warranty of merchanta express or implied, with respect to such information, and we assume r use. Users should make their own investigations to determine the suit their particular purposes. | ability or any other warranty no liability resulting from its |
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