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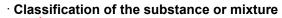
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1 Identification

- · Product identifier
- Trade name: ATX-100
- · Article number: 36935
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:** Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- Information department: Product safety department
 Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification





GHS06 Skull and crossbones

Acute Tox. 2 H310 Fatal in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

GHS08 Health hazard

- Carc. 2 H351 Suspected of causing cancer.
- Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- STOT RE 1 H372 Causes damage to the central nervous system, the kidneys, the liver and the respiratory system through prolonged or repeated exposure.

GHS07

Acute Tox. 4H302 Harmful if swallowed.Skin Irrit. 2H315 Causes skin irritation.

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| Eve Irrit 2A H | (Contd. from page 319 Causes serious eye irritation. |
|--------------------------------------|--|
| Label elements | · |
| GHS label elen | - |
| | classified and labeled according to the Globally Harmonized System (GHS). |
| Hazard pictog | |
| | |
| | |
| | |
| | |
| GHS06 GHS | 07 GHS08 |
| | |
| Signal word Da | anger |
| | ining components of labeling: |
| Chloroform | ente |
| Hazard statem | |
| H302 Harmful it | |
| H310 Fatal in co H331 Toxic if in | |
| H315 Causes s | |
| | erious eye irritation. |
| | d of causing cancer. |
| | d of damaging fertility or the unborn child. |
| | amage to the central nervous system, the kidneys, the liver and the respiratory system |
| | rolonged or repeated exposure. |
| Precautionary | |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P264 | Wash 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 gloves/protective clothing/eye protection/face protection. |
| P301+P312 | If swallowed: Call a poison center/doctor if you feel unwell. |
| 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+P3 | 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses |
| 5040 | present and easy to do. Continue rinsing. |
| P310 | Immediately call a poison center/doctor. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P321 | Specific treatment (see on this label). |
| P314 | Get medical advice/attention if you feel unwell. |
| P330 P361+P364 | Rinse mouth. |
| P361+P364 P332+P313 | Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. |
| P332+P313 P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| | Dispose of contents/container in accordance with local/regional/national/internation |
| P501 | |
| P501 | regulations. |

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99.0%

1.0%

Trade name: ATX-100

Classification system:
 NFPA ratings (scale 0 - 4)

Health = 3 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH3Health = 3FIRE0Fire = 0REACTIVITY0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 67-66-3 Chloroform RTECS: FS9100000

· Other ingredients

2230647-37-5 ATX-100

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Immediately call a doctor.
- · Information for doctor:
- \cdot Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

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• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- Use fire fighting measures that suit the environment.
- A solid water stream may be inefficient.
- · Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

| · PAC-1: | |
|--------------------|-----------|
| 67-66-3 Chloroform | 2 ppm |
| · PAC-2: | |
| 67-66-3 Chloroform | 64 ppm |
| · PAC-3: | |
| 67-66-3 Chloroform | 3,200 ppm |

7 Handling and storage

- · Handling:
- Precautions for safe handling
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- Conditions for safe storage, including any incompatibilities
- · Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

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· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

67-66-3 Chloroform

PEL Ceiling limit value: 240 mg/m³, 50 ppm

- REL Short-term value: 9.78* mg/m³, 2* ppm *60-min; See Pocket Guide App. A
- TLV Long-term value: 10 ppm
- A3

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Safety glasses

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Tightly sealed goggles

9 Physical and chemical properties

| Information on basic physical and General Information | cnemical properties |
|--|---|
| Appearance: | |
| Form: | Liquid |
| Color: | Colorless |
| Odor: | Pleasant |
| Structural Formula | C44H86N2O5S |
| Molecular Weight | 755.2 g/mol |
| Odor threshold: | Not determined. |
| Formulation | A solution in chloroform |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/Melting range: | -63 °C (-81.4 °F) |
| Boiling point/Boiling range: | 62 °C (143.6 °F) |
| Flash point: | Not applicable. |
| Flammability (solid, gaseous): | Not applicable. |
| Ignition temperature: | 982 °C (1,799.6 °F) |
| Decomposition temperature: | Not determined. |
| Auto igniting: | Product is not selfigniting. |
| Danger of explosion: | Product does not present an explosion hazard. |
| Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Vapor pressure at 20 °C (68 °F): | 210 hPa (157.5 mm Hg) |
| Density at 20 °C (68 °F): | 1.47988 g/cm³ (12.3496 lbs/gal) |
| Relative density | Not determined. |
| Vapor density | Not determined. |
| Evaporation rate | Not determined. |
| Solubility in / Miscibility with | |
| Water at 20 °C (68 °F): | 8 g/l |
| Partition coefficient (n-octanol/wat | er): Not determined. |
| Viscosity: | |
| Dynamic at 20 °C (68 °F): | 0.56 mPas |
| Kinematic: | Not determined. |
| | (Contd. on page |

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|---|--|------|
| Solvent content: VOC content: | 0.00 % 0.0 g/l / 0.00 lb/gal | |
| Solids content: | 1.0 % | |
| [.] Other information | No further relevant information available. | |

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

| ATE (Acute Tox | icity Estimate) | |
|--------------------|----------------------|-----------------------|
| Oral | LD50 | 303 mg/kg (rat) |
| Dermal | LD50 | 75.8 mg/kg (rat) |
| Inhalative | LC50/4 h | 3.03 mg/l |
| 67-66-3 Chlorof | orm | |
| Oral | LDLO | 2,514 mg/kg (man) |
| | LD50 | 300 mg/kg (rat) |
| Dermal | LD50 | >20 g/kg (rabbit) |
| | LD50 | 75 mg/kg (rat) |
| Inhalative | LC50 | 47,702 mg/m³/4h (rat) |
| | TCLO | 5,000 mg/m³/7m (hmn) |
| Irritation of skin | Irritation | 10 mg/24h (rabbit) |
| Irritation of eyes | Irritation | 20 mg/24h (rabbit) |
| | Intraperitoneal LD50 | 623 mg/kg (mouse) |

• on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

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Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

67-66-3 Chloroform

· NTP (National Toxicology Program)

67-66-3 Chloroform

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

| UN-Number | |
|-------------------------|--|
| DOT, IMDG, IATA | UN2810 |
| UN proper shipping name | |
| DOT | Toxic, liquids, organic, n.o.s. (Chloroform) |
| IMDG | TOXIC LIQUID, ORGANIC, N.O.S. (CHLOROFORM |
| ΙΑΤΑ | Toxic liquid, organic, n.o.s. (CHLOROFORM) |

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|---|--|
| Transport hazard class(es) | |
| DOT | |
| | |
| Toxic | |
| 6 | |
| Class | C 4 Taula autotanaga |
| Class Label | 6.1 Toxic substances 6.1 |
| | 0.1 |
| IMDG, IATA | |
| | |
| | |
| 6 | |
| Class | 6.1 Toxic substances |
| Label | 6.1 |
| | |
| Packing group DOT, IMDG, IATA | П |
| | |
| Environmental hazards: | Not applicable. |
| Special precautions for user | Warning: Toxic substances |
| Hazard identification number (Kemler code) | |
| EMS Number: | F-A,S-A |
| Segregation groups Stowage Category | Liquid halogenated hydrocarbons B |
| Stowage Code | B SW2 Clear of living quarters. |
| • | |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| | |
| Transport/Additional information: | |
| DOT | |
| Quantity limitations | On passenger aircraft/rail: 5 L |
| | On cargo aircraft only: 60 L |
| IMDG | |
| Limited quantities (LQ) | 100 ml |
| Excepted quantities (EQ) | Code: E4 Maximum pot quantity por inpor pockaging: 1 ml |
| | Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml |
| | |
| IATA Remarks: | When cold in quantities of loss than or equal to 4 |
| | When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of |
| | E1, E2, E4, or E5, this item meets the De Minim |
| | Quantities exemption, per IATA 2.6.10. |
| | Therefore packaging does not have to be labeled a |
| | Dangerous Goods/Excepted Quantity. |
| | |
| UN "Model Regulation": | UN 2810 TOXIC LIQUID, ORGANIC, N.O. |

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| Sara Section 355 (extremely hazardous substances): 67-66-3 Chloroform Section 313 (Specific toxic chemical listings): 67-66-3 Chloroform TSCA (Toxic Substances Control Act): 67-66-3 Chloroform ACTIV Hazardous Air Pollutants 67-66-3 Chloroform Proposition 65 Chemicals known to cause cancer: 67-66-3 Chloroform Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: 67-66-3 Chloroform Carcinogenic categories EPA (Environmental Protection Agency) 67-66-3 Chloroform | Safety, health and environmental regulations/legislation specific for the No further relevant information available. | he substance or mixture |
|--|--|-------------------------|
| 67-66-3 Chloroform Section 313 (Specific toxic chemical listings): 67-66-3 Chloroform TSCA (Toxic Substances Control Act): 67-66-3 Chloroform ACTIV Hazardous Air Pollutants 67-66-3 Chloroform Proposition 65 Chemicals known to cause cancer: 67-66-3 Chloroform Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: 67-66-3 Chloroform Chemicals known to cause developmental toxicity: 67-66-3 Chloroform EPA (Environmental Protection Agency) 67-66-3 Chloroform B2, L, I TLV (Threshold Limit Value) 67-66-3 Chloroform I | | |
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| 67-66-3 Chloroform ACTIV FSCA (Toxic Substances Control Act): 67-66-3 Chloroform 67-66-3 Chloroform ACTIV Hazardous Air Pollutants 67-66-3 Chloroform 67-66-3 Chloroform Proposition 65 Chemicals known to cause cancer: 67-66-3 Chloroform 67-66-3 Chloroform Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: 67-66-3 Chloroform Chemicals known to cause developmental toxicity: 67-66-3 Chloroform EPA (Environmental Protection Agency) 67-66-3 Chloroform B2, L, I TLV (Threshold Limit Value) 67-66-3 Chloroform | | |
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| 67-66-3 Chloroform ACTIV Hazardous Air Pollutants 67-66-3 Chloroform 67-66-3 Chloroform Chemicals known to cause cancer: 67-66-3 67-66-3 Chloroform Chemicals known to cause reproductive toxicity for females: Proposition 65 Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: 67-66-3 Chloroform 67-66-3 Chloroform Carcinogenic categories EPA (Environmental Protection Agency) 67-66-3 Chloroform B2, L, I TLV (Threshold Limit Value) 67-66-3 Chloroform 1 1 | 67-66-3 Chloroform | |
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| Proposition 65 Chemicals known to cause cancer: 67-66-3 Chloroform Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: 67-66-3 Chloroform Carcinogenic categories EPA (Environmental Protection Agency) 67-66-3 Chloroform 67-66-3 Chloroform 7LV (Threshold Limit Value) 67-66-3 Chloroform | Hazardous Air Pollutants | |
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| Chemicals known to cause developmental toxicity: 67-66-3 Chloroform Carcinogenic categories EPA (Environmental Protection Agency) 67-66-3 Chloroform B2, L, I TLV (Threshold Limit Value) 67-66-3 Chloroform | | |
| 67-66-3 Chloroform Carcinogenic categories EPA (Environmental Protection Agency) 67-66-3 Chloroform B2, L, I TLV (Threshold Limit Value) 67-66-3 Chloroform Image: Colspan="2">Colspan="2"C | None of the ingredients is listed. | |
| Carcinogenic categories EPA (Environmental Protection Agency) 67-66-3 Chloroform TLV (Threshold Limit Value) 67-66-3 Chloroform | Chemicals known to cause developmental toxicity: | |
| EPA (Environmental Protection Agency) 67-66-3 Chloroform TLV (Threshold Limit Value) 67-66-3 Chloroform | 67-66-3 Chloroform | |
| 67-66-3 Chloroform B2, L, I TLV (Threshold Limit Value) 67-66-3 Chloroform 67-66-3 Chloroform A | Carcinogenic categories | |
| TLV (Threshold Limit Value) 67-66-3 Chloroform | EPA (Environmental Protection Agency) | |
| 67-66-3 Chloroform | 67-66-3 Chloroform | B2, L, N |
| | TLV (Threshold Limit Value) | |
| NIOSH-Ca (National Institute for Occupational Safety and Health) | 67-66-3 Chloroform | F |
| | NIOSH-Ca (National Institute for Occupational Safety and Health) | |

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 08/31/2022 / -
- **Abbreviations and acronyms:** IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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Trade name: ATX-100

| IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Carc. 2: Carcinogenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 | (Contd. from page 10) |
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