

SAFETY DATA SHEET

| United States | | |
|--|--|--|
| Section 1. Identification Product name | Poly(A), 500 m | ng |
| Catalogue Number | 27-4110-02 | 9 0 2 7 4 1 1 0 0 2 |
| Other means of identification Product type | Not available. Solid. | |
| Relevant identified uses of the s | ubstance or mixture and uses | advised against |
| Identified uses Analytical chemistry. Use in laboratories Scientific research and developm Industrial applications: Analytical | | entific research and development. |
| Supplier | Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 | Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593 |
| In case of emergency | ChemTrec US (available 24/7 |) 1-800-424-9300 |
| Section 2. Hazards ident | ification | |
| OSHA/HCS status | CFR 1910.1200), this SDS co | idered hazardous by the OSHA Hazard Communication Standard (29 ntains valuable information critical to the safe handling and proper use Id be retained and available for employees and other users of this |
| Classification of the substance or mixture | Not classified. | |
| <u>GHS label elements</u> Signal word Hazard statements | No signal word. No known significant effects c | r critical hazards. |
| Precautionary statements | | |
| Prevention | Not applicable. | |
| Response | Not applicable. | |
| Storage | Not applicable. | |
| Disposal | Not applicable. | |
| Hazards not otherwise | None known. | |

classified



Section 3. Composition/information on ingredients

| Substance/mixture | Mixture |
|-------------------------------|-----------------|
| Other means of identification | Not available. |
| CAS number/other identifiers | |
| CAS number | Not applicable. |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
|-----------------------------------|---|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Skin contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Ingestion | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Most important symptoms/effect | s, acute and delayed |
| Potential acute health effects | |
| Eye contact | No known significant effects or critical hazards. |
| Inhalation | No known significant effects or critical hazards. |
| Skin contact | No known significant effects or critical hazards. |
| Ingestion | No known significant effects or critical hazards. |
| Over-exposure signs/symptom | <u>s</u> |
| Eye contact | No specific data. |
| Inhalation | No specific data. |
| Skin contact | No specific data. |
| Ingestion | No specific data. |
| Indication of immediate medical | attention and special treatment needed, if necessary |
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | No specific treatment. |
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training. |
| See toxicological information (Se | ection 11) |
| Section 5. Fire-fighting n | neasures |
| Extinguishing media | |
| | Lies on extinguishing agent suitable for the surrounding fire |

| Suitable extinguishing media | Use an extinguishing agent suitable for the surrounding fire. |
|---|---|
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | No specific fire or explosion hazard. |
| Hazardous thermal decomposition products | No specific data. |
| Special protective actions for fire-fighters | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |



Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
|-----------------------------------|---|
| For emergency responders | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Methods and materials for contain | inment and cleaning up |
| Small spill | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| Large spill | Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

| Precautions for safe handling | |
|---|---|
| Protective measures | Put on appropriate personal protective equipment (see Section 8). |
| Advice on general occupational hygiene | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage, including any incompatibilities | Do not store above the following temperature: 20°C (68°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

Section 8. Exposure controls/personal protection

| • | |
|---------------------------------------|---|
| Control parameters | |
| Occupational exposure limits None. | |
| Appropriate engineering controls | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
| Individual protection measures | |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Skin protection | |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |

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Section 9. Physical and chemical properties

| _ | |
|-----------------------------------|--|
| <u>Appearance</u> | |
| Physical state | Solid. |
| Color | White. |
| Odor | Not available. |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point | Not available. |
| Boiling point | Decomposes. |
| Flash point | Not applicable. |
| Burning time | Not available. |
| Burning rate | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Lower and upper explosive | Not available. |
| (flammable) limits | |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility | Easily soluble in the following materials: cold water and hot water. |
| Solubility in water | Not available. |
| Partition coefficient: n-octanol/ | Not available. |
| water | |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| SADT | Not available. |
| Viscosity | Not available. |
| Flow time (ISO 2431) | Not available. |
| A success for an allocat | |

Aerosol product

Section 10. Stability and reactivity

| Reactivity Chemical stability | No specific test data related to reactivity available for this product or its ingredients. The product is stable. |
|---------------------------------------|--|
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | No specific data. |
| Incompatible materials | No specific data. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity Not available.

Irritation/Corrosion Not available.

Sensitization Not available.

Mutagenicity Not available.

Carcinogenicity Not available.

Reproductive toxicity Not available.

Not available

Teratogenicity Not available.

Specific target organ toxicity (single exposure)

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Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

Information on the likely routes Routes of entry anticipated: Oral, Dermal, Inhalation.

of exposure

| Potential | acute | <u>health</u> | effects |
|-----------|-------|---------------|---------|
| | | | |

| | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
|---|--|
| Eye contact Inhalation | No specific data. No specific data. |
| Skin contact | No specific data. |
| Ingestion | No specific data. |
| - | nd also chronic effects from short and long term exposure |
| Short term exposure | |
| Potential immediate effects | Not available. |
| Potential delayed effects | Not available. |
| Long term exposure | |
| Potential immediate effects | Not available. |
| Potential delayed effects | Not available. |
| Potential chronic health effects | |
| Not available. | |
| General | No known significant effects or critical hazards. |
| Carcinogenicity | No known significant effects or critical hazards. |
| Mutagenicity | No known significant effects or critical hazards. |
| Teratogenicity Developmental effects | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Fertility effects | No known significant effects or critical hazards. |
| Numerical measures of toxicity | |
| Acute toxicity estimates | |
| N/A | |
| | |
| Section 12. Ecological in | formation |
| Toxicity | |
| Not available. | |
| Persistence and degradability | |
| Not available. | |
| Bioaccumulative potential | |

Not available.

 Mobility in soil
 Not available.

 Soil/water partition coefficient (K oc)
 Not available.

 Other adverse effects
 No known significant effects or critical hazards.



Section 13. Disposal considerations

| product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incinerat or landfill should only be considered when recycling is not feasible. This material and its contai must be disposed of in a safe way. Empty containers or liners may retain some product residue | Disposal methods | environmental protection and waste disposal legislation and any regional local authority |
|---|------------------|--|
|---|------------------|--|

Section 14. Transport information

Product is not regulated as dangerous goods for transport.

Section 15. Regulatory information

U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined

| Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) | Not listed |
|--|------------|
| Clean Air Act Section 602 Class I Substances | Not listed |
| Clean Air Act Section 602 Class II Substances | Not listed |
| DEA List I Chemicals (Precursor Chemicals) | Not listed |
| DEA List II Chemicals (Essential Chemicals) | Not listed |

SARA 302/304

| Composition/information | on ingredients |
|-------------------------|----------------|
| | |

No products were found.

SARA 311/312

Classification Not applicable.

Composition/information on ingredients

No products were found.

State regulations

| Massachusetts | None of the components are listed. |
|---------------|------------------------------------|
| New York | None of the components are listed. |
| New Jersey | None of the components are listed. |
| Pennsylvania | None of the components are listed. |

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

| Chemical Weapon Convention | List Schedules I, II & III Chemicals |
|-------------------------------|--|
| Not listed. | |
| Montreal Protocol | |
| Not listed. | |
| Stockholm Convention on Pers | istent Organic Pollutants |
| Not listed. | |
| Rotterdam Convention on Prior | Informed Consent (PIC) |
| Not listed. | |
| UNECE Aarhus Protocol on PO | Ps and Heavy Metals |
| Not listed. | |
| Inventory list | |
| United States | All components are listed or exempted. |
| Europe | Not determined. |
| Canada inventory | Not determined. |
| | |



Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

| Classi | fication Justification |
|--------------------------------|--|
| Not classified. | |
| History | |
| Date of printing | 5/6/2020 |
| Date of issue/Date of revision | 12/2/2019 |
| Date of previous issue | 11/24/2015 |
| Version | 4 |
| | sds_author@cytiva.com |
| Key to abbreviations | ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations |
| References | Not available. |
| — | |

Indicates information that has changed from previously issued version.

Notice to reader

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