

Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

Issuing Date: 2018-01-19

Revision Date: 2024-05-16

Version: 2

| SECTION 1. Identification | | |
|--|---|--|
| Product identifier | | |
| Product No | 7170 | |
| Product name | PathScan® Total Akt1 Sandwich ELISA Kit | |
| Kit Component | 99700: Akt Rabbit mAb Coated Microwells 13080: Akt1 Mouse Detection mAb 13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) 14621: Green Detection Antibody Diluent 2 13515: HRP Diluent 11083: ELISA Sample Diluent 7002: STOP Solution 7004: TMB Substrate 9801: ELISA Wash Buffer (20X) 9803: Cell Lysis Buffer (10X) | |
| <u>Hazardous Components</u> 13515: HRP Diluent 7002: STOP Solution 9801: ELISA Wash Buffer (20X) 9803: Cell Lysis Buffer (10X) | | |
| UN number | UN3265 (maleic acid) | |
| Recommended use of the chemical | and restrictions on use | |
| Identified uses Manufacturer, importer, supplier | This product is intended for research purposes only. | |
| Manufacturer address | Cell Signaling Technology, Inc. 3 Trask Lane Danvers, MA 01923 United States TEL: +1 978 867 2300 FAX: +1 978 867 2400 | |
| Website Email address Emergency telephone number | www.cellsignal.com support@cellsignal.com In case of emergency call CHEMTREC 1-800-424-9300 | |

SECTION 2. Hazard(s) identification

Classification

Classification and label elements described below are inclusive of all hazards of the combined kit. The most severe classifications

are listed for each endpoint. Refer to individual kit component SDS for classification and label elements for each component present in the kit.

| Skin corrosion/irritation | Category 1 |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |

GHS Label elements, including precautionary statements



Signal Word Danger

Hazard statement(s)

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Precautionary Statement(s)

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician Store locked up. Dispose of contents/container to an approved waste disposal plant. Supplementary Hazard Information

Hazards not otherwise classified (HNOC) Harmful to aquatic life with long lasting effects.

SECTION 3. Composition/information on ingredients

Kit Component

7002: STOP Solution

DANGER: Causes severe skin burns and eye damage. May cause an allergic skin reaction.

| Chemical name | CAS No | Weight-% |
|---------------|----------|----------|
| maleic acid | 110-16-7 | 3-7 |

Kit Component

9801: ELISA Wash Buffer (20X)

WARNING: May cause an allergic skin reaction.

| Chemical name | CAS No | Weight-% |
|--|------------|-------------|
| reaction mass of: | 55965-84-9 | 0.005-0.025 |
| 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. | | |
| 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC | | |
| no. 220-239-6] (3:1) | | |

Kit Component

11083: ELISA Sample Diluent

| Chemical name | CAS No | Weight-% |
|---------------|------------|----------|
| sodium azide | 26628-22-8 | <0.1 |

Kit Component 9803: Cell Lysis Buffer (10X)

DANGER: Causes serious eye damage. Causes skin irritation. Harmful to aquatic life with long lasting effects.

| Chemical name | CAS No | Weight-% |
|---|------------|----------|
| polyethylene glycol | 9002-93-1 | 10 |
| p-(1,1,3,3-tetramethylbutyl)phenylether | | |
| tetrasodium pyrophosphate, decahydrate | 13472-36-1 | 0.1-1 |

Kit Component

14621: Green Detection Antibody Diluent 2

| Chemical name | CAS No | Weight-% |
|---------------|------------|----------|
| sodium azide | 26628-22-8 | <0.1 |

Kit Component

Kit Component

13515: HRP Diluent

WARNING: May cause an allergic skin reaction

| Chemical name | CAS No | Weight-% |
|--|------------|-------------|
| reaction mass of: | 55965-84-9 | 0.005-0.025 |
| 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. | | |
| 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC | | |
| no. 220-239-6] (3:1) | | |

99700: Akt Rabbit mAb Coated Microwells 13080: Akt1 Mouse Detection mAb 13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) 7004: TMB Substrate

These products do not contain substances at concentrations requiring disclosure under 29 CFR 1910.1200 (OSHA Hazard Communication Standard).

| Eye contact | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
|--------------|--|
| Skin contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation or rash occurs: Get medical advice/attention. |
| Inhalation | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. |
| Ingestion | Get medical attention. Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. |

Most important symptoms and effects, both acute and delayed

Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Contains an animal derived biological. May produce an allergic reaction in susceptible individuals. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Advice for emergency responders

| General advice | For further assistance, contact your local Poison Control Center. |
|----------------------------|---|
| Protection of first-aiders | Ensure that medical personnel are aware of the material(s) involved and take precautions to |
| | protect themselves |

SECTION 5. Fire-fighting measures

Extinguishing media

| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the |
|------------------------------|--|
| | surrounding environment |
| | Carbon dioxide (CO 2) |
| | Foam |
| | Water spray |
| | Dry powder |

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | Avoid contact with skin, eyes and clothing. Use personal protective equipment. Evacuate |
|-----------------------------|---|
| | personnel to safe areas. Keep people away from and upwind of spill/leak. |
| Other information | Refer to protective measures listed in Sections 7 and 8. |

Environmental precautions

Do not allow material to contaminate ground water system. Should not be released into the environment. Do not flush into surface

water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

| Methods for containment | Prevent further leakage or spillage if safe to do so. | |
|-------------------------|---|--|
| Methods for cleaning up | Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. | |
| | Clean contaminated surface thoroughly. Sweep up and shovel into suitable containers for | |
| | disposal. Avoid dust formation. | |

SECTION 7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

Conditions for safe storage, including any incompatibilities

| Technical measures/Storage | Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and |
|----------------------------|---|
| conditions | well-ventilated place. |
| Packaging material | No information available. |
| Incompatible products | Metals, Strong oxidizing agents, strong acids, and strong bases |

SECTION 8. Exposure controls/personal protection

Control parameters

| Occupational exposure limit values | | | |
|--|---------------------------------|----------|--------------------------------|
| Chemical name | ACGIH TLV | OSHA PEL | NIOSH REL |
| tetrasodium pyrophosphate, decahydrate | - | - | TWA : 5 mg/m ³ |
| sodium azide | Ceiling: 0.29 mg/m ³ | - | Ceiling: 0.1 ppm |
| | Ceiling: 0.11 ppm | | Ceiling: 0.3 mg/m ³ |

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

| Eye/face protection Skin and body protection Respiratory protection Hygiene measures | Tightly fitting safety goggles. Lightweight protective clothing. Impervious gloves. In case of inadequate ventilation wear respiratory protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal |
|---|--|
| | cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Wear suitable gloves and eye/face protection. |

SECTION 9. Physical and chemical properties

Information on the known physical chemical properties of each component within Kit are given below. If not included, information is either not available or not applicable. Refer to individual kit component SDS for further information.

Information on basic physical and chemical properties

Kit Component Physical state Appearance

Kit Component Physical state

Appearance Color

Kit Component

Physical state Appearance Color pH

Kit Component

Physical state Appearance Color pH

Kit Component

Physical state Appearance Color pH

Kit Component

Physical state Appearance Color pH

Kit Component

Physical state Appearance Color pH

Kit Component

Physical state Appearance Color pH

Kit Component

Physical state Appearance Color pH

Kit Component

Physical state Appearance Color pH

99700: Akt Rabbit mAb Coated Microwells Solid

Microwell Plate

13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) Solid

Powder, Lyophilized Red

13080: Akt1 Mouse Detection mAb

Solid Powder, Lyophilized Green 7.4 (20 °C)

7002: STOP Solution

Liquid Clear Colorless 1.2 (20 °C)

7004: TMB Substrate

Liquid Clear Light yellow 3.3-3.8 (20 °C)

9801: ELISA Wash Buffer (20X)

Liquid Clear Colorless 6.4 (20 °C)

9803: Cell Lysis Buffer (10X)

Liquid Clear Colorless 7.5 (20 °C)

11083: ELISA Sample Diluent

Liquid Clear Blue 7.1 (20 °C)

14621: Green Detection Antibody Diluent 2 Liquid Clear Green

7.4 (20°C)

13515: HRP Diluent

Liquid Clear Red 7.4 (20°C)

(20°C)

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

| Hazardous reactions | None under normal processing. |
|--------------------------|-------------------------------|
| Hazardous polymerization | None under normal processing. |

Conditions to Avoid

Extremes of temperature and direct sunlight, Exposure to air or moisture over prolonged periods, Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide

Incompatible Materials

Metals, Strong oxidizing agents, strong acids, and strong bases

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors

SECTION 11. Toxicological information

Information on likely routes of exposure

Product Information

Refer to kit component SDS for full toxicological information. This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

Inhalation

| Kit Component | 13080: Akt1 Mouse Detection mAb | |
|---------------|---|--|
| Inhalation | May cause allergic respiratory reaction | |
| Kit Component | 13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) | |
| Inhalation | May cause allergic respiratory reaction | |
| Kit Component | 7002: STOP Solution | |
| Inhalation | Aerosol expected to be irritating based on components | |
| Kit Component | 9801: ELISA Wash Buffer (20X) | |
| Inhalation | Avoid breathing vapors or mists May cause irritation of respiratory tract | |
| Kit Component | 13515: HRP Diluent | |
| Inhalation | Avoid breathing vapors or mists May cause irritation of respiratory tract | |
| vo opptaat | | |

Eye contact

| Kit Component | 13515: HRP Diluent |
|-------------------------------|--|
| Eye contact | Contact with eyes may cause irritation |
| Kit Component | 7002: STOP Solution |
| Eye contact | May cause irreversible damage to eyes |
| Kit Component | 9801: ELISA Wash Buffer (20X) |
| Eye contact | Expected to be an irritant based on components |
| Kit Component | 9803: Cell Lysis Buffer (10X) |
| Eye contact | Expected to be an irritant based on components |
| Skin contact | |
| Kit Component | 13080: Akt1 Mouse Detection mAb |
| Skin contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons |
| Kit Component | 13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) |
| Skin contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons |
| Kit Component | 13515: HRP Diluent |
| Skin contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons |
| Kit Component | 7002: STOP Solution |
| Skin contact | Corrosive to skin Prolonged contact with skin is harmful |
| Kit Component Skin contact | 9801: ELISA Wash Buffer (20X) Repeated or prolonged skin contact may cause allergic reactions with susceptible persons Expected to be an irritant based on components |
| Ingestion_ | |
| Kit Component | 7002: STOP Solution |
| Ingestion | Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed |
| Kit Component | 9801: ELISA Wash Buffer (20X) |
| Ingestion | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea |

Information on toxicological effects

Component Information

| Chemical name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|
| polyethylene glycol | = 1800 mg/kg (Rat) | - | - |
| p-(1,1,3,3-tetramethylbutyl)phenylet | | | |
| her | | | |
| maleic acid | 708 mg/kg (Rat) | 1,560 mg/kg (Rabbit) | > 0.72 mg/L (Rat) 1h |
| sodium azide | = 27 mg/kg (Rat) | = 20 mg/kg (Rabbit)= 50 mg/kg (| - |
| | | Rat) | |
| reaction mass of: | = 53 mg/kg (Rat) = 481 mg/kg | = 200 mg/kg (Rabbit) | = 1.23 mg/L (Rat) 4 h = 0.11 mg/L |
| 5-chloro-2-methyl-4-isothiazolin-3-o | (Rat) 232 - 249 mg/kg (Rat) = 120 | | (Rat) 4 h |
| ne [EC no. 247-500-7] and | mg/kg (Rat) | | |
| 2-methyl-2H -isothiazol-3-one [EC | | | |
| no. 220-239-6] (3:1) | | | |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Symptoms | Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Contains an animal derived biological. May produce an allergic reaction in susceptible individuals. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. |
|--|--|
| Skin and Eye Corrosion/Irritation | |
| Kit Component | 7002: STOP Solution |
| Serious eye damage/eye irritation | Risk of serious damage to eyes |
| Skin corrosion/irritation | Causes burns |
| Kit Component | 9801: ELISA Wash Buffer (20X) |
| Serious eye damage/eye irritation | Causes serious eye irritation |
| Skin corrosion/irritation | Causes skin irritation |
| Kit Component | 9803: Cell Lysis Buffer (10X) |
| Serious eye damage/eye irritation | Irritating to eyes |
| Sensitization | |
| Kit Component | 13080: Akt1 Mouse Detection mAb |
| Respiratory Sensitization | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| Skin Sensitization | May cause skin sensitization |
| Kit Component | 13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) |
| Respiratory Sensitization | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| Skin Sensitization | May cause skin sensitization |
| Kit Component | 13515: HRP Diluent |
| Skin Sensitization | Product is or contains a sensitizer. May cause an allergic skin reaction |
| Kit Component | 9801: ELISA Wash Buffer (20X) |
| Skin Sensitization | Product is or contains a sensitizer. May cause an allergic skin reaction |
| Kit Component | 7002: STOP Solution |
| Skin Sensitization | May cause skin sensitization |
| Mutagenic effects | |
| Kit Component | 7002: STOP Solution |
| Mutagenic effects | Not mutagenic in AMES Test |
| Carcinogenicity | No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA. |
| Reproductive toxicity | No information available. |
| Systemic Target Organ Toxicity (STOT) | |
| Kit Component | 7002: STOP Solution |

| STOT - repeated exposure | May cause damage to organs through prolonged or repeated exposure |
|--------------------------|---|
| STOT - single exposure | Respiratory system |

Aspiration Hazard

No information available.

SECTION 12. Ecological information

Ecotoxicity

Product Information Ecotoxicity

| Kit Component | 7002: STOP Solution |
|---------------|---|
| Ecotoxicity | Toxic to aquatic life |
| Kit Component | 9801: ELISA Wash Buffer (20X) |
| Ecotoxicity | Harmful to aquatic life with long lasting effects |

Component Information

| Chemical name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---|---|---|---|
| polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her | - | LC50 8.9 mg/l (Pimephales promelas) 96 h | EC50 26 mg/l (Daphnia) 48 h |
| maleic acid | - | LC50 5 mg/L (Pimephales promelas) 96 h | EC50 250 - 400 mg/L (Daphnia magna) 48 h |
| sodium azide | EC50 0.35 mg/L (Pseudokirchneriella subcapitata) 96 h | | LC100 1 mg/L (Orconectes rusticus) 96 h |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-o ne [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | EC50 0.11 - 0.16 mg/L (Pseudokirchneriella subcapitata) 72 h EC50 0.31 mg/L (Anabaena flos-aquae) 120 h EC50 0.03 - 0.13 mg/L (Pseudokirchneriella subcapitata) 96 h | | EC50 4.71 mg/L (Daphnia magna) 48 h EC50 0.71 - 0.99 mg/L (Daphnia magna) 48 h EC50 0.12 - 0.3 mg/L (Daphnia magna) 48 h |

Persistence and degradability

| Kit Component | 7002: STOP Solution |
|-------------------------------|-------------------------------|
| Persistence and degradability | Product is biodegradable |
| Kit Component | 9801: ELISA Wash Buffer (20X) |
| Persistence and degradability | Not readily biodegradable |

Bioaccumulation

| Kit Component | 7002: STOP Solution |
|-----------------|-------------------------------|
| Bioaccumulation | Not likely to bioaccumulate |
| Kit Component | 9801: ELISA Wash Buffer (20X) |
| Bioaccumulation | Not likely to bioaccumulate |

Not likely to bioaccumulate

| Chemical name | Octanol-Water Partition Coefficient |
|---------------|-------------------------------------|
| maleic acid | 0.32 |

Mobility

Kit Component Mobility **7002: STOP Solution** Will likely be mobile in the environment due to its water solubility

Will likely be mobile in the environment due to its water solubility

Kit Component Mobility

Other adverse effects

No information available.

SECTION 13. Disposal considerations

9801: ELISA Wash Buffer (20X)

Waste Disposal Methods

Should not be released into the environment.

Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way. Dispose of wastes in an approved waste disposal facility.

SECTION 14. Transport information

This material is subject to regulation as a hazardous material for shipping:

DOT

| UN number UN proper shipping name Transport hazard class(es) Packing group IATA | UN3265 (maleic acid) Corrosive liquid, acidic, organic, n.o.s. (maleic acid) 8 III |
|---|---|
| UN number | UN3265 |
| UN proper shipping name | Corrosive liquid, acidic, organic, n.o.s. (maleic acid) |
| Transport hazard class(es) | 8 |
| Packing group | III |

SECTION 15. Regulatory information

North American Inventory Listing

This product contains a chemical or chemicals included in the Toxic Substances Control Act (TSCA) Chemical Substance Inventory, Domestic Substances List (DSL) and/or Non-Domestic Substances List (NDSL):

| Chemical name | TSCA 8(b) | TSCA 12(b) | DSL | NDSL |
|-----------------------------------|------------|----------------|--------|------------|
| polyethylene glycol | Listed | Not Listed | Listed | Not Listed |
| p-(1,1,3,3-tetramethylbutyl)phen | | | | |
| ylether | | | | |
| maleic acid | Listed | Not Listed | Listed | Not Listed |
| sodium azide | Listed | Not Listed | Listed | Not Listed |
| reaction mass of: | Not Listed | Section 5: 1 % | Listed | Not Listed |
| 5-chloro-2-methyl-4-isothiazolin- | | | | |
| 3-one [EC no. 247-500-7] and | | | | |
| 2-methyl-2H -isothiazol-3-one | | | | |
| [EC no. 220-239-6] (3:1) | | | | |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name | CAS No | SARA 313 - Threshold Values % |
|----------------------------|------------|-------------------------------|
| trisodium tetraoxovanadate | 13721-39-6 | 1.0 |
| sodium azide | 26628-22-8 | 1.0 |
| magnesium nitrate | 10377-60-3 | 1.0 |
| copper dinitrate | 3251-23-8 | 1.0 |

SARA 311/312 Hazard Categories

| Acute Health Hazard | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances | CWA - Bioaccumulative Chemicals of Concern (BCCs) |
|---------------|--------------------------------|---------------------------|------------------------------|-------------------------------|--|
| maleic acid | 5000 lb | Not Listed | Not Listed | Listed | Not Listed |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------|--------------------------|---------------------------------------|
| maleic acid | 5000 lb | Not Listed |
| sodium azide | 1000 lb | 1000 lb |

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product contains the following U.S. State Right to Know chemicals:

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| maleic acid | Listed | Listed | Listed |
| disodium hydrogenorthophosphate | Listed | Listed | Listed |
| tetrasodium pyrophosphate, decahydrate | Listed | Listed | Listed |
| sodium azide | Listed | Listed | Listed |
| trisodium tetraoxovanadate | Listed | Not Listed | Not Listed |
| magnesium nitrate | Listed | Listed | Listed |
| disodium hydrogenorthophosphate | Listed | Listed | Listed |
| copper dinitrate | Listed | Listed | Listed |

SECTION 16. Other information

Issuing Date: 2018-01-19

Revision Date: 2024-05-16

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet