
Section 1: Information

1. Product Identification

- 1.1. Name: Hoechst 33342
- 1.2. C.A.S. Number: 23491-52-3
- 1.3. Catalog Number
 - 1.3.1. ViaStain™ Live Caspase 3/7 Detection for 2D/3D Culture with Hoechst, Cat. No.: CSK-V0003-1, 25uL
 - 1.3.2. ViaStain™ Live Caspase 3/7 Detection for 2D/3D Culture with Hoechst, Cat. No.: CSK-V0003-S, 10uL
 - 1.3.3. Hoechst 33342, Cat. No.: CS1-0128-5mL, 5mL
 - 1.3.4. Hoechst 33342, Cat. No.: CS1-0128-S, 20µL
 - 1.3.5. ViaStain™ Hoechst/PI Viability Kit, Cat. No.: CSK-V0005-1, 50µL
 - 1.3.6. ViaStain™ Hoechst/PI Viability Kit, Cat. No.: CSK-V0005-S, 10µL
 - 1.3.7. ViaStain™ Calcein AM/Hoechst/PI Viability kit, Cat. No.: CSK-V0006-1, 40µL
 - 1.3.8. ViaStain™ Calcein AM/Hoechst/PI Viability kit, Cat. No.: CSK-V0006-S, 8µL
 - 1.3.9. Celigo Training Kit, Cat. No.: CELIGO_TK-01-00011, 60uL
 - 1.3.10. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-1, 6 µL
 - 1.3.11. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-S, 6 µL

1.4. Supplier

Nexcelom Bioscience, LLC.
360 Merrimack St. Building 9
Lawrence, MA 01843
Phone Number: 1 (978) 327-5340
Hours of Operation: 9am-5pm EST

Nexcelom Bioscience, Ltd.
Unit 5, Rutherford House
Pencroft Way,
Manchester Science Park
Manchester. M15 6SZ. UK
Phone Number: 0161-232-4592

- 1.5. Emergency Number: Please contact the appropriate local emergency response provider
- 1.6. R.E.A.C.H Registration Number: No registration number is given yet for the substance/substances in this mixture since the annual import quantity is less than the required one tonnage per annum

2. Recommended Use

- 2.1. Hoechst 33342 should only be used as a nuclear staining reagent for detecting the total number of cells
- 2.2. Hoechst 33342 is not intended to be used as a human or animal diagnostic or as a therapeutic reagent, it is intended for research use only
- 2.3. Do not use Hoechst 33342 for any other purposes

Section 2: Hazard Identification

1. Hazard Classification

- 1.1. No hazard classification to report

- 1.2. No R-phrases to report
- 2. Label Elements
 - 2.1. Signal Words: None
 - 2.2. Hazard Statements: None
 - 2.3. Precautionary Statements: None
 - 2.4. Supplemental Hazard Statements: None
 - 2.5. Pictograms:
 - 2.5.1. None
 - 2.6. Other Hazards Which Do Not Result in Classification
 - 2.6.1. None of the components are considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher

Section 3: Composition and Information on Ingredients

- 1. Substance: Hoechst 33342
 - 1.1. Hazardous Component: Hoechst 33342
 - 1.2. Synonyms
 - 1.2.1. Trihydrochloride
 - 1.2.2. trihydrate
 - 1.3. Hazardous component molecular formula: $C_{27}H_{28}N_6O$
 - 1.4. Hazardous component molecular weight: 452.56 g/mol
- 2. Substance: Cell Grade (Endotoxin-Free) Water
 - 2.1. Hazardous Component: Cell Grade (Endotoxin-Free) Water
 - 2.2. Synonyms
 - 2.2.1. Water
 - 2.3. Hazardous component molecular formula: H_2O
 - 2.4. Hazardous component molecular weight: 18.02 g/mol

| Common Name | Classification | CAS Number/IUPAC Name | EC- Number | M-Factor | Percentage |
|-----------------------------------|----------------|-----------------------|------------|----------|---------------|
| Cell Grade (Endotoxin-Free) Water | None to report | 7732-18-15 | 231-791-2 | N/A | 98 % - 99.9 % |
| Hoechst 33342 | None to report | 23491-52-3 | 245-691-1 | N/A | 0.1 % - 2 % |

Section 4: First-aid Measures

- 1. Always remove contaminated personnel away from the hazardous area and to a safe area
- 2. Most Important Symptoms and Effects

- 2.1. No information available
- 2.2. See Section 11
3. Indication of Immediate Medical Attention or Necessary Special Treatment
 - 3.1. No information available
4. Medical Professionals
 - 4.1. If medical advice or attention is required, present them with this safety data sheet first
 - 4.2. Notes to Physician: Treat symptomatically
5. Inhalation
 - 5.1. Not anticipated as an inhalation risk if used under recommended conditions
 - 5.2. Seek medical advice or attention if necessary
6. Skin Contact
 - 6.1. Remove any contaminated clothing, and wash area with soap and plenty of water for 15 minutes
 - 6.2. Wash clothes before re-use
 - 6.3. Seek medical advice or attention if irritation persists
7. Eye Contamination
 - 7.1. Flush open eyes for 15 minutes
 - 7.2. If contacts are present, remove contacts after first 15-minute wash and flush for an additional 15 minutes
 - 7.3. Seek medical advice or attention if irritation persists
8. Ingestion
 - 8.1. Do not induce vomiting
 - 8.2. Drink plenty of water
 - 8.3. Never give an unconscious person anything by mouth
 - 8.4. Seek medical advice or attention if irritation persists

Section 5: Fire-fighting Measures

1. Suitable Extinguishing Media
 - 1.1. Carbon dioxide
 - 1.2. Dry chemical extinguishers
 - 1.3. Appropriate foam extinguishers
 - 1.4. Water spray
2. Not Suitable Extinguishing Media
 - 2.1. None to report
3. Specific Hazards Arising from the Chemical
 - 3.1. Emits toxic fumes under fire conditions
4. Special Protective Actions for Fire-fighters
 - 4.1. Wear a self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes
5. Further Information
 - 5.1. None to report

Section 6: Accidental Release Measures

1. Personal Precautions
 - 1.1. Use proper personal protective equipment to clean up spills promptly
2. Protective Equipment
 - 2.1. Use standard personal protective equipment
3. Emergency Procedures
 - 3.1. See Section 5
4. Accidental Spills or Release of the Product
 - 4.1. Wear proper protective equipment while cleaning up spills
 - 4.2. Remove ignition sources and provide adequate ventilation
 - 4.3. Contact emergency personnel if required
5. Emergency Responders
 - 5.1. Personal Protective Equipment
 - 5.1.1. See Section 5
6. Environmental Precautions
 - 6.1. Do not let product enter drains
7. Methods and Materials for Containment and Cleaning
 - 7.1. Drains
 - 7.1.1. Do not let product enter drains
 - 7.2. Capping procedures
 - 7.2.1. No information available
 - 7.3. Neutralization techniques
 - 7.3.1. No information available
 - 7.4. Decontamination techniques
 - 7.4.1. No information available
 - 7.5. Absorbent Materials
 - 7.5.1. Use inert absorbent materials
 - 7.6. Cleaning Techniques
 - 7.6.1. Use inert absorbent materials
 - 7.6.2. For disposal see Section 13
 - 7.7. Vacuuming Techniques
 - 7.7.1. No information available
 - 7.8. Special Equipment
 - 7.8.1. No information available

Section 7: Handling and Storage

1. Safe Handling
 - 1.1. Avoid breathing vapors, mists, and gasses
 - 1.2. Avoid formation of dusts
 - 1.3. Avoid prolonged and repeated exposure
2. Incompatible Substances

- 2.1. No information available
- 3. Operations and Conditions to Avoid
 - 3.1. Avoid long-term exposures to light
- 4. General Good Hygiene Practices
 - 4.1. No eating, drinking or smoking in work areas
 - 4.2. Wash hands after breaks and at the end of the work day
 - 4.3. Remove contaminated clothing and protective equipment before entering eating areas
- 5. Conditions for Safe Storage
 - 5.1. Store container tightly closed and in a dry, cool, and well-ventilated place
 - 5.2. Conditions to avoid
 - 5.2.1. Long term exposure to light
 - 5.3. Environmental Effects to avoid
 - 5.3.1. No information available
- 6. How to maintain product integrity
 - 6.1. No information available
- 7. Engineering Advice
 - 7.1. No information available

Section 8: Exposure Controls and Personal Protection

1. National Exposure Limits

| Country | TWA (8-hour weighted average) | | Short -Term Limits/Excursion Limits (STEL) | | Biological Limit Value |
|----------------|-------------------------------|-------------------|--|-------------------|------------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ | |
| Austria | - | - | - | - | - |
| Belgium | - | - | - | - | - |
| Bulgaria | - | - | - | - | - |
| Croatia | - | - | - | - | - |
| Cyprus | - | - | - | - | - |
| Czech Republic | - | - | - | - | - |
| Denmark | - | - | - | - | - |
| Estonia | - | - | - | - | - |
| Finland | - | - | - | - | - |
| France | - | - | - | - | - |
| Germany | - | - | - | - | - |
| Greece | - | - | - | - | - |
| Hungary | - | - | - | - | - |
| Ireland | - | - | - | - | - |
| Italy | - | - | - | - | - |
| Latvia | - | - | - | - | - |
| Lithuania | - | - | - | - | - |

| | | | | | |
|----------------|---|---|---|---|---|
| Luxembourg | - | - | - | - | - |
| Malta | - | - | - | - | - |
| Netherlands | - | - | - | - | - |
| Poland | - | - | - | - | - |
| Portugal | - | - | - | - | - |
| Romania | - | - | - | - | - |
| Slovakia | - | - | - | - | - |
| Slovenia | - | - | - | - | - |
| Spain | - | - | - | - | - |
| Sweden | - | - | - | - | - |
| United Kingdom | - | - | - | - | - |

2. Appropriate Engineering Controls
 - 2.1. Follow general industrial hygiene practices
3. Exposure Controls
 - 3.1. Always use good occupational hygiene practices
 - 3.1.1. Do not eat, drink, or smoke while using this product
 - 3.1.2. Wash hands before breaks and at the end of the work day
 - 3.1.3. Regularly clean equipment, work area, and clothing
 - 3.2. Eye and face protection
 - 3.2.1. Follow safe laboratory practices
 - 3.3. Skin protection
 - 3.3.1. Follow safe laboratory practices
 - 3.4. Respiratory Protection
 - 3.4.1. Follow safe laboratory practices
 - 3.5. Thermal Hazards
 - 3.5.1. Follow safe laboratory practices
4. Environmental Exposure Controls
 - 4.1. Do not let product enter drains

Section 9: Physical and Chemical Properties

| Property | Data |
|--|--------------------------|
| Physical State | Liquid |
| Color | Yellow |
| Odor | No information available |
| Odor Threshold | No information available |
| Freezing Point | No information available |
| Melting Point | No information available |
| Boiling point or Initial Boiling Point/Range | No information available |
| Flammability | No information available |

| | |
|--|--------------------------|
| Lower and Upper Explosion Limit/Flammability Limit | No information available |
| Flash Point | No information available |
| Auto-Ignition Temperature | No information available |
| Explosive Properties | No information available |
| Decomposition Temperature | No information available |
| Oxidizing Properties | No information available |
| pH | No information available |
| Viscosity | No information available |
| Solubility | No information available |
| Partition Coefficient n-octanol/water (Log value) | No information available |
| Vapor Pressure | No information available |
| Density and/or Relative Density | No information available |
| Relative Vapor Density | No information available |
| Particle Characteristics | No information available |
| Evaporation Rate | No information available |
| Surface Tension | No information available |

Section 10: Stability and Reactivity

1. Reactivity
 - 1.1. No information available
2. Chemical Stability
 - 2.1. Stable under recommended storage conditions
3. Possibility of Hazardous Reactions
 - 3.1. No information available
4. Conditions to avoid
 - 4.1. No information available
5. Incompatible Materials
 - 5.1. No information available
6. Hazardous Decomposition Products
 - 6.1. Formed under fire: Toxic fumes
 - 6.2. Other decomposition products: No information available

Section 11: Toxicological Information

1. Acute Toxicity
 - 1.1. No information available
2. Skin Corrosion/Irritation
 - 2.1. May cause irritation in susceptible people
3. Serious Eye Damage/Irritation
 - 3.1. May cause irritation in susceptible people
4. Respiratory or Skin Sensitization
 - 4.1. No information available

5. Repeated Dose Toxicity
 - 5.1. No information available
6. Germ Cell Mutagenicity
 - 6.1. Potentially harmful
7. Carcinogenicity
 - 7.1. IARC
 - 7.1.1. No component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible, or confirmed human carcinogen by IARC
8. Mutagenicity
 - 8.1. No information available
9. Reproductive Toxicity
 - 9.1. No information available
10. Specific Target Organ Toxicity- Single Exposure
 - 10.1.No information available
11. Specific Target Organ Toxicity – Repeated Exposure
 - 11.1.No information available
12. Aspiration Hazard
 - 12.1.No information available
13. Likely Routes of Exposure
 - 13.1.Skin
 - 13.2.Eyes
14. Symptoms Related to Physical, Chemical, and Toxicological Characteristics
 - 14.1.No information available
15. Delayed and Immediate Effects
 - 15.1.Short Term Exposure
 - 15.1.1. No information available
 - 15.2.Long Term Exposure
 - 15.2.1. No information available
16. Interactive Effects
 - 16.1.No information available
17. Other Information
 - 17.1.Registry of Toxic Effects of Chemical Substances
 - 17.1.1. None to report

Section 12: Ecological Information

1. Ecotoxicity: May cause long-lasting, harmful effects to aquatic life
 - 1.1. Fish
 - 1.1.1. No information available
 - 1.2. Crustaceans
 - 1.2.1. No information available
 - 1.3. Algae

- 1.3.1. No information available
- 1.4. Other Aquatic Plants
 - 1.4.1. No information available
- 1.5. Soil Micro- and Macro-Organisms
 - 1.5.1. No information available
- 1.6. Birds
 - 1.6.1. No information available
- 1.7. Bees
 - 1.7.1. No information available
- 1.8. Plants
 - 1.8.1. No information available
- 1.9. Inhibition of Micro-Organisms
 - 1.9.1. No information available
- 1.1. Impact on Sewage Treatment Plants
 - 1.1.1. See Section 13
- 2. Persistence and Degradability
 - 2.1. No information available
- 3. Bioaccumulative Potential
 - 3.1. No information available
- 4. Mobility in Soil
 - 4.1. No information available
- 5. Other Adverse Effects
 - 5.1. Environmental Fate
 - 5.1.1. No information available
 - 5.2. Ozone Depletion Potential
 - 5.2.1. No information available
 - 5.3. Photochemical Ozone Creation Potential
 - 5.3.1. No information available
 - 5.4. Endocrine Disrupting Potential and/or Global Warming Potential
 - 5.4.1. No information available

Section 13: Disposal Considerations

- 1. Disposal Methods
 - 1.1. Please take precautions to generate as little waste as possible while handling and using this product
 - 1.2. Do not dispose of contaminated materials in the sewage
 - 1.3. Packaging, containers, solutions and any material that may have come in contact with this product should be considered as hazardous as the product itself
 - 1.4. Disposal of this product and any of its by-products should be in compliance with all applicable local, regional and national/federal biological hazardous waste disposal regulations

Section 14: Transport Information

1. European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
 - 1.1. Not available
2. Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)
 - 2.1. Not available
3. European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)
 - 3.1. Not available
4. UN Number: No information available
5. UN Proper Shipping Name: No information available
6. Transport Hazard Class: No information available
7. Packing Group: No information available
8. Environmental Hazards
 - 8.1. No information available
9. Special Precautions for the User
 - 9.1. No information available
10. Transport in bulk according to Annex II of MARPOL 73/78
 - 10.1. Not applicable
 - 10.2. International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code): Not applicable

Section 15: Regulatory Information

1. Safety Regulations/Legislations
 - 1.1. No information available
2. Health Regulations/Legislations
 - 2.1. No information available
3. Environmental Regulations/Legislations
 - 3.1. No information available
4. Chemical Safety Assessment
 - 4.1. No chemical safety assessment information is available

Section 16: Other Information

1. Literary references
 - 1.1. None to report
2. Methods of Evaluation
 - 2.1. In accordance with Article 9 (2.) of Regulation (EC) No. 1272/2008
 - 2.2. In accordance with Article 8 (3. B) of Regulation (EC) No. 1272/2008
 - 2.3. In accordance with Annex 1 (1.1.1) of Regulation (EC) No. 1272/2008
 - 2.4. In accordance with Annex XI (1.2) of Regulation (EC) No. 1907/2006
3. Training Advice

- 3.1. Handle this product using standard precautionary laboratory practices, with effective engineering conditions and while wearing the proper protective equipment described in this safety data sheet
- 3.2. Only use this product for research purposes and never as a diagnostic tool

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Date Revised: 05/22/2019

Revision Number: D

1. Added CSK-V0007

END OF SDS