

Section 1: Information

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## 1. Product Identification

1.1. Name: Calcein AM

1.2. C.A.S. Number: 148504-34-1

1.3. Catalog Number:

1.3.1. ViaStain™ Calcein AM/PI Cell Vitality and Viability Kit,  
Cat. No.: CSK-0118, 200 µL1.3.2. ViaStain™ Calcein AM/PI Cell Vitality and Viability Kit,  
Cat. No.: CSK-0118-S, 10 µL

1.3.3. ViaStain™ Calcein AM, Cat. No.: CS1-0119, 200 µL

1.3.4. ViaStain™ Calcein AM, Cat. No.: CS1-0119-S, 10 µL

1.3.5. ViaStain™ Calcein AM/PI/Hoechst Cell Viability kit,  
Cat. No.: CSK-V0001-1, 200 µL1.3.6. ViaStain™ Calcein AM/PI/Hoechst Cell Viability kit,  
Cat. No.: CSK-V0001-S, 10 µL1.3.1. ViaStain™ Calcein AM/Hoechst/PI Viability kit,  
Cat. No.: CSK-V0006-S, 10 µL1.3.2. ViaStain™ Calcein AM/Hoechst/PI Viability kit,  
Cat. No.: CSK-V0006-1, 50 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. Calcein AM should only be used as a dye reagent for research purposes only

2.2. Calcein AM is not intended to be used as a human or animal diagnostic or therapeutic reagent

2.3. Do not use Calcein AM for any other uses

Section 2: Hazard Identification

1. Hazard Classification

- 1.1. H227 Combustible liquid Category: 4
- 1.2. H315 Skin corrosion/irritation Category: 2
- 1.3. H319 Serious eye damage/eye irritation Category: 2
- 1.4. H335 Specific target organ toxicity (single exposure) Category: 3

For the full text of H-Statements please reference Section 16

- 1.5. Hazard symbols Xi - Irritant
- 1.6. R36/37/38 Xi - Irritant

For the full text of R-phrases please reference Section 16

2. Label Elements

- 2.1. Signal Words: Warning
- 2.2. Hazard Statements
  - 2.2.1. Category 2 Skin corrosion/Irritation
  - 2.2.2. Category 2A Serious eye damage/eye Irritation
  - 2.2.3. Category 3 Specific target organ toxicity (single exposure)
- 2.3. Precautionary Statements
  - 2.3.1. P210 Keep away from heat/sparks/open flames/hot surfaces
  - 2.3.2. P280 Wear protective gloves/eye protection/face protection
  - 2.3.3. P321 Specific treatment
  - 2.3.4. P370 + P378 In the event of a fire: use dry sand, dry chemical, or alcohol resistant foam to extinguish
  - 2.3.5. P403 + P235 Store in a well-ventilated place and keep cool
  - 2.3.6. P501 Dispose of contents/container to an approved waste disposal plant

2.4. Supplemental Hazard Statements:None

2.5. Pictograms:



2.5.1.

2.6. Other Hazards Which Do Not Result in Classification

- 2.6.1. Dimethyl sulfoxide is readily absorbed through the skin and may carry such materials into the body
- 2.6.2. Hazardous Materials Identification System Classification
  - Health Hazard: 1
  - Chronic Health Hazard: \*
  - Flammability: 2
  - Physical Hazard: 0

2.6.3. National Fire Protection Association Rating

Health Hazard: 0  
 Fire: 2  
 Reactivity Hazard: 0  
 Instability: 0

Section 3: Composition and Information on Ingredients

1. Substance: Calcein AM
  - 1.1. Hazardous Component: Calcein AM
  - 1.2. Synonyms
    - 1.2.1. CAM
    - 1.2.2. CAL-AM
    - 1.2.3. 3',6'-Di(O-acetyl-2',7'-bis[N,N-bis(carboxymethyl)-aminomethyl]fluorescein tetraacetoxymethyl ester
  - 1.3. Hazardous component molecular formula: C<sub>46</sub>H<sub>46</sub>N<sub>2</sub>O<sub>23</sub>
  - 1.4. Hazardous component molecular weight: 994.86 g/mol
2. Substance: Dimethyl sulfoxide
  - 2.1. Hazardous Component: Dimethyl sulfoxide
  - 2.2. Synonyms
    - 2.2.1. DMSO
  - 2.3. Hazardous component molecular formula: C<sub>2</sub>H<sub>6</sub>OS
  - 2.4. Hazardous component molecular weight: 78.13 g/mol

Common Name	Classification	CAS Number/IUPAC Name	EC-Number	M-Factor	Percentage
DMSO	H227: 4	67-68-5	200-664-3	N/A	90 % -99.9 %
Calcein AM	H315: 2 H318: 2 H335: 3	148504-34-1	Not available	N/A	0.1 % -10 %

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. See general first aid measures below
  - 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. Place person in fresh air and in a comfortable position for breathing
  - 5.2. Seek medical advice or attention if person is not breathing and provide artificial respiration
- 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 immediately

#### Section 5: Fire-fighting Measures

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- 1. Suitable Extinguishing Media
  - 1.1. Carbon dioxide
  - 1.2. Dry chemical extinguishers
  - 1.3. Alcohol resistant foam extinguishers
  - 1.4. Water spray
- 2. Not Suitable Extinguishing Media
  - 2.1. No information available
- 3. Specific Hazards Arising from the Chemical
  - 3.1. Carbon oxides, Sulphur oxides, Nitrogen oxides
- 4. Special Protective Actions for Fire-fighters
  - 4.1. Wear a self-contained breathing apparatus for firefighting if necessary
- 5. Further Information
  - 5.1. Use water spray to cool unopened containers

#### Section 6: Accidental Release Measures

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- 1. Personal Precautions
  - 1.1. Use proper personal protective equipment

- 1.2. Avoid breathing vapors, mists, or gases
- 1.3. Remove all sources of ignition
- 1.4. Vapors can accumulate to explosive concentrations in low areas
- 1.5. See Section 8
2. Protective Equipment
  - 2.1. Wear standard laboratory proper protective equipment
  - 2.2. See Section 8
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. Prevent further leakage or spillage if safe to do so
  - 6.2. 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. Keep in suitable closed container for disposal
    - 7.2.2. See Section 13 for disposal instructions
  - 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. Inert absorbent materials
    - 7.5.2. Take precautionary measures against static discharges
  - 7.6. Cleaning Techniques
    - 7.6.1. Can collect with wet brush and place in a suitable, closed container for disposal according to local regulations (see Section 13)
    - 7.6.2. Contain spillage
    - 7.6.3. Soak up with inert absorbent material
    - 7.6.4. Keep in a suitable closed container
    - 7.6.5. For disposal see Section 13
  - 7.7. Vacuuming Techniques
    - 7.7.1. Can collect using an electrically protected vacuum cleaner into a suitable, closed container for disposal according to local regulations (see Section 13)

## 7.8. Special Equipment

7.8.1. No information available

## Section 7: Handling and Storage

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1. Safe Handling
  - 1.1. Avoid inhalation of vapors or mists
  - 1.2. Avoid direct contact with substance
  - 1.3. Keep away from sources of ignition – no smoking
  - 1.4. Take measures to prevent the buildup of electrostatic charge
2. Incompatible Substances
  - 2.1. Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, and strong reducing agents
3. Operations and Conditions to Avoid
  - 3.1. Any heat or fire sources
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. Keep container tightly closed in a dry and well-ventilated place
  - 5.2. Store under inert gas: hygroscopic
  - 5.3. Store at 4 °C
  - 5.4. Storage class (TRGS 510): Combustible liquids
  - 5.5. Conditions to avoid
    - 5.5.1. Heat, flames, and combustible materials
  - 5.6. Environmental Effects to avoid
    - 5.6.1. No information available
6. How to maintain product integrity
  - 6.1. Keep container tightly closed in a dry and well-ventilated place
  - 6.2. Keep in a dry place
7. Engineering Advice
  - 7.1. Have appropriate showers, eyewash stations, and ventilation systems installed and up to code

## Section 8: Exposure Controls and Personal Protection

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1. National Exposure Limits
  - 1.1. Substance: Dimethyl sulfoxide
    - 1.1.1. CAS no. 67-68-5

Country	TWA (8-hour weighted average)		Short -Term Limits/Excursion Limits (STEL)		Biological Limit Value
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Austria	-	160 mg/m <sup>3</sup>	-	-	-
Belgium	-	-	-	-	-
Bulgaria	-	-	-	-	-
Croatia	-	-	-	-	-
Cyprus	-	-	-	-	-
Czech Republic	-	-	-	-	-
Denmark	-	160 mg/m <sup>3</sup>	-	320 mg/m <sup>3</sup>	-
Estonia	-	-	-	-	-
Finland	-	-	-	-	-
France	-	-	-	-	-
Germany	-	160 mg/m <sup>3</sup>	-	320 mg/m <sup>3</sup>	-
Greece	-	-	-	-	-
Hungary	-	-	-	-	-
Ireland	-	-	-	-	-
Italy	-	-	-	-	-
Latvia	-	-	-	-	-
Lithuania	-	-	-	-	-
Luxembourg	-	-	-	-	-
Malta	-	-	-	-	-
Netherlands	-	-	-	-	-
Poland	-	-	-	-	-
Portugal	-	-	-	-	-
Romania	-	-	-	-	-
Slovakia	-	-	-	-	-
Slovenia	-	-	-	-	-
Spain	-	-	-	-	-
Sweden	-	160 mg/m <sup>3</sup>	-	500 mg/m <sup>3</sup>	-
United Kingdom	-	-	-	-	-

2. Appropriate Engineering Controls
  - 2.1. Handle with good industrial hygiene and safety practices
  - 2.2. Wash hands before breaks and at the end of the workday
  - 2.3. Have appropriate showers, eye wash stations, and ventilation systems installed and up to code
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. Use safety glasses with side-shields conforming to EN166 or equipment for eye protection tested and approved under appropriate government standards such as NIOSH (U.S.A.) or EN 166 (E.U.)
- 3.3. Skin protection
  - 3.3.1. Gloves must be inspected prior to use
  - 3.3.2. Nitrile gloves are not recommended due to some having a 5 minutes breakthrough time
  - 3.3.3. Use proper removal technique (without touching glove's outer surface) to avoid skin contact with this product
  - 3.3.4. Dispose of contaminated gloves after use in accordance with applicable laws (outlined in Section 13) and good laboratory practices
  - 3.3.5. Wash and dry hands after every use
- 3.4. Respiratory Protection
  - 3.4.1. No information available
- 3.5. Thermal Hazards
  - 3.5.1. Avoid heat
- 4. Environmental Exposure Controls
  - 4.1. Do not let product enter drains

Section 9: Physical and Chemical Properties

Property	Data
Physical State	Liquid
Color	Clear
Odor	Sulphurous
Odor Threshold	No data available
Freezing Point	No data available
Melting Point	16-19 °C (61-66 °F)
Boiling point or Initial Boiling Point/Range	189 °C (372 °F)
Flammability	No data available
Lower and Upper Explosion Limit/Flammability Limit	Upper Explosion Limit: 42 % Lower Explosion Limit: 3.5 %
Flash Point	87 °C (189 °F) – Closed cup- ASTM D 93
Auto-Ignition Temperature	300-302 °C (572-576 °F)
Explosive Properties	> 190 °C (>374 °F)
Decomposition Temperature	Upper Explosion Limit: 42 % Lower Explosion Limit: 3.5 %
Oxidizing Properties	No information available
pH	Not applicable
Viscosity	No information available
Solubility	Water Solubility – Completely miscible Alcohol – Soluble



	Diethyl ether - Soluble
Partition Coefficient n-octanol/water (Log value)	log Pow: -1.35
Vapor Pressure	0.55 h Pa (0.41 mmHg) at 20 °C (68 °F) 4 h Pa (3 mmHg) at 50 °C (122 °F)
Density and/or Relative Density	1.1 g/mL
Relative Vapor Density	2.70 - (Air = 1.0)
Particle Characteristics	Not applicable
Evaporation Rate	No information available
Surface Tension	43.5 mN/m at 20 °C (68 °F)

Section 10: Stability and Reactivity

1. Reactivity
  - 1.1. No information available
2. Chemical Stability
  - 2.1. Stable under recommended storage conditions, but may form explosive peroxides
3. Possibility of Hazardous Reactions
  - 3.1. None under normal processing
4. Conditions to avoid
  - 4.1. Heat, flames, sparks, and exposure to air over prolonged periods of time
5. Incompatible Materials
  - 5.1. Acid chlorides, Phosphorus halides, strong acids, strong oxidizing agents, and strong reducing agents
6. Hazardous Decomposition Products
  - 6.1. Formed under fire: See Section 5
  - 6.2. Hazardous polymerization does not occur
  - 6.3. Other decomposition products: No information available

Section 11: Toxicological Information

1. Acute Toxicity: Dimethyl sulfoxide
  - 1.1. Oral LD50 - Rat – 14,500 mg/kg
  - 1.2. Inhalation LC50 - Rat – 4h – 40250 ppm
  - 1.3. Dermal LD50 - Rabbit - >5,000 mg/kg
2. Skin Corrosion/Irritation
  - 2.1. Mild skin irritation
  - 2.2. Components of the product may be absorbed through the skin
3. Serious Eye Damage/Irritation
  - 3.1. Eye disease – based on human evidence
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. Mouse
    - 6.1.1. Lymphocyte - Cytogenic analysis
    - 6.1.2. Lymphocyte - Mutation in mammalian somatic cells
    - 6.1.3. DNA damage
  - 6.2. Rat
    - 6.2.1. Lymphocyte - Cytogenic analysis
- 7. Carcinogenicity
  - 7.1. Rat
    - 7.1.1. Oral – Tumorigenic: Equivocal tumorigenic agent by RTECS criteria
    - 7.1.2. Skin, and Appendages:
    - 7.1.3. Other: Tumors
  - 7.2. Mouse
    - 7.2.1. Oral – Tumorigenic: Equivocal tumorigenic agent by RTECS criteria
    - 7.2.2. Leukemia, Skin, and Appendages:
    - 7.2.3. Other: Tumors
  - 7.3. IARC
    - 7.3.1. 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. Reproductive Toxicity
  - 8.1. Rat – Effects on Fertility
    - 8.1.1. Intraperitoneal
      - 8.1.1.1. Abortion
      - 8.1.1.2. Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants)
    - 8.1.2. Subcutaneous
      - 8.1.2.1. Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants)
      - 8.1.2.2. Litter size (e.g., number of fetuses per litter; measured before birth)
  - 8.2. Mouse – Effects on Fertility
    - 8.2.1. Oral
      - 8.2.1.1. Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea)
  - 8.3. Mouse – Effects on Embryo or Fetus
    - 8.3.1. Oral
      - 8.3.1.1. Fetotoxicity (except death, e.g., stunted fetus)
    - 8.3.2. Intraperitoneal
      - 8.3.2.1. Fetotoxicity (except death, e.g., stunted fetus)
    - 8.3.3. Specific Developmental Abnormalities
      - 8.3.3.1. Musculoskeletal system
- 9. Specific Target Organ Toxicity- Single Exposure

- 9.1. No information available
- 10. Specific Target Organ Toxicity – Repeated Exposure
  - 10.1. No information available
- 11. Aspiration Hazard
  - 11.1. No information available
- 12. Likely Routes of Exposure
  - 12.1. Skin
  - 12.2. Eyes
  - 12.3. Inhalation
- 13. Symptoms Related to Physical, Chemical, and Toxicological Characteristics
  - 13.1. No information available
- 14. Delayed and Immediate Effects
  - 14.1. Short Term Exposure
    - 14.1.1. No information available
  - 14.2. Long Term Exposure
    - 14.2.1. No information available
- 15. Interactive Effects
  - 15.1. No information available
- 16. Other Information
  - 16.1. Registry of Toxic Effects of Chemical Substances
    - 16.1.1. PV6210000 – Dimethyl sulfoxide
  - 16.2. Exposure to large amounts can cause: redness of skin, itching, burning, sedation, headache, nausea, and dizziness

## Section 12: Ecological Information

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- 1. Ecotoxicity: May cause long-lasting, harmful effects to aquatic life
  - 1.1. Fish
    - 1.1.1. LC50 *Pimephales promelas* (fathead minnow) 34,000 mg/l – 96 h
    - 1.1.2. LC50 *Oncorhynchus mykiss* (rainbow trout) 35,000 mg/l – 96 h
  - 1.2. Daphnia and Other Aquatic Invertebrates
    - 1.2.1. EC50 *Daphnia magna* (water flea) 24,600 mg/l – 48 h  
(OECD Test Guideline 202)
  - 1.3. Algae
    - 1.3.1. EC50 *Pseudokirchneriella subcapitata* (green algae) 17,000 mg/l – 72 h  
(OECD Test Guideline 201)
  - 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. No information
  - 1.1.2. Reference Section 13
- 2. Persistence and Degradability
  - 2.1. Not readily biodegradable 31 % according to OECD Test Guideline 301D
- 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

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- 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

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- 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

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1. Safety Regulations/Legislations
  - 1.1. International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Neither banned nor restricted
  - 1.2. REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Neither banned nor restricted
  - 1.3. Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Neither banned nor restricted
  - 1.4. REACH – List of substances subject to authorization (Annex XIV): Neither Banned nor restricted
  - 1.5. REACH – Candidate List of Substances of Very High Concern for Authorization (Article 59): This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57)
2. Health Regulations/Legislations
  - 2.1. No information available
3. Environmental Regulations/Legislations
  - 3.1. Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer: Neither banned nor restricted
  - 3.2. Regulation (EC) No. 850/2004 on persistent organic pollutants: Neither banned nor restricted
4. Chemical Safety Assessment

4.1. No chemical safety assessment information is available

## Section 16: Other Information

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### 1. Literary references

1.1. H statements according to Regulation (EC) No. 1272/2008

- 1.1.1. H227 Combustible liquid
- 1.1.2. H319 Causes serious eye irritation
- 1.1.3. H315 Causes skin irritation
- 1.1.4. H335 May cause respiratory irritation

1.2. R-phrases according to EU Directives 67/584/EEC or 1999/45/EC

- 1.2.1. Xi Irritant
- 1.2.2. R36/37/38 Irritating to eyes, respiratory system and skin

### 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: 29, January 2019**

**Revision Number: C**

- 1. Updated UK address information.

**END OF SDS**