

# Safety Data Sheet

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Version 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Knockout cell lines SDS  
**Recommended use** For research use only  
  
**Supplier Address** Abcam Inc  
 1 Kendall Square, Ste 341  
 Cambridge, MA 02139-1517  
 USA  
 Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)  
 Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)  
  
**E-mail address** technical@abcam.com  
  
**Emergency telephone** +1 866 928 0789 (Toll free) /+1 202 464 2554

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|       |                |
|-------|----------------|
| Ozone | Not applicable |
|-------|----------------|

### GHS Label elements, including precautionary statements

Not dangerous

### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ protective clothing

### Other information

Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. DMSO is readily absorbed through skin and may carry such materials into the body.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

| Chemical Name | CAS-No  | Weight % | Classification (Reg. 1272/2008) |
|---------------|---------|----------|---------------------------------|
| DMSO          | 67-68-5 | 5-10     | -                               |

For the full text of the H-Statements mentioned in this Section, see Section 16

#### 4. FIRST AID MEASURES

|                           |  |
|---------------------------|--|
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                    |
| <b>Inhalation</b>         | Move to fresh air.   |
| <b>Ingestion</b>          | Clean mouth with water. Drink plenty of water.   |
| <b>Notes to physician</b> | Treat symptomatically.   |

#### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | None.  |
| <b>Sensitivity to Static Discharge</b>                       | None.  |
| <b>Protective equipment and precautions for firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes. |

#### 6. ACCIDENTAL RELEASE MEASURES

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Ensure adequate ventilation.                                       |
| <b>Environmental precautions</b> | Try to prevent the material from entering drains or water courses. |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so.              |
| <b>Methods for cleaning up</b>   | Pick up and transfer to properly labeled containers.               |

#### 7. HANDLING AND STORAGE

|  |  |
|--|--|
| <b>Advice on safe handling</b>               | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Technical measures/Storage conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

|                                      |   |
|--------------------------------------|---|
| <b>Exposure Guidelines</b>           | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.   |
| <b>Engineering measures</b>          | Showers<br>Eyewash stations<br>Ventilation systems  |
| <b>Personal protective equipment</b> |   |
| <b>Eye/face protection</b>           | Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).   |
| <b>Skin and body protection</b>      | Long sleeved clothing. Protective gloves.   |
| <b>Respiratory protection</b>        | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene measures</b>              | Handle in accordance with good industrial hygiene and safety practice.  |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |                           |                                    |                           |
|----------------------------------|---------------------------|------------------------------------|---------------------------|
| <b>Appearance</b>                | No information available. | <b>Odor</b>                        | No information available. |
| <b>Odor Threshold</b>            | No information available  | <b>Physical State @20°C</b>        | Liquid                    |
| <b>pH</b>                        | No information available  | <b>Autoignition temperature</b>    | No information available  |
| <b>Flash point</b>               | No information available  | <b>Boiling point/boiling range</b> | No information available  |
| <b>Decomposition temperature</b> | No information available  | <b>Flammability Limits in Air</b>  | No information available  |
| <b>Melting point/range</b>       | No information available  | <b>solubility</b>                  | No information available. |
| <b>Explosion limits</b>          | No information available  | <b>Vapor Pressure @20°C (kPa)</b>  | No information available  |
| <b>Specific Gravity</b>          | No data available         | <b>VOC Content(%)</b>              | Not applicable            |
| <b>Evaporation rate</b>          | No information available  |                                    |                           |
| <b>Vapor density</b>             | No data available         |                                    |                           |

**10. STABILITY AND REACTIVITY**

|   |  |
|---|--|
| <b>Stability</b>                        | Stable under recommended storage conditions. |
| <b>Incompatible products</b>            | None known based on information supplied.    |
| <b>Conditions to avoid</b>              | None known based on information supplied.    |
| <b>Hazardous decomposition products</b> | None known based on information supplied.    |
| <b>Hazardous polymerization</b>         | Hazardous polymerization does not occur.     |

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information

| Chemical Name | LD50 Oral           | LD50 Dermal     | LC50 Inhalation |
|---------------|---------------------|-----------------|-----------------|
| DMSO          | 14500 mg/kg ( Rat ) | 40 g/kg ( Rat ) |                 |

**Chronic toxicity**

**Target Organ Effects** None known.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name        | Toxicity to algae                                  | Toxicity to fish  | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|----------------------|--|---|----------------------------|---|
| DMSO                 | 12350 - 25500: 96 h Skeletonema costatum mg/L EC50 | 34: 96 h Pimephales promelas mg/L LC50 33-37: 96 h Oncorhynchus mykiss g/L LC50 static 40: 96 h Lepomis macrochirus g/L LC50 static 41.7: 96 h Cyprinus carpio g/L LC50 |                            | 7000: 24 h Daphnia species mg/L EC50                |
| <b>Chemical Name</b> |  |   | <b>log Pow</b>             |   |
| DMSO                 |  |   | -2.03                      |   |

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

**DOT** Not dangerous goods

**IATA** Not dangerous goods

**ADR** Not dangerous goods

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|  |    |
|--|----|
| <b>Acute Health Hazard</b>               | no |
| <b>Chronic Health Hazard</b>             | no |
| <b>Fire Hazard</b>                       | no |
| <b>Sudden Release of Pressure Hazard</b> | no |
| <b>Reactive Hazard</b>                   | no |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations****International Regulations****WHMIS Note:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**16. OTHER INFORMATION****Revision Date**

09-Aug-2019

**Revision Note**

No information available.

**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 MSDS**