

# SAFETY DATA SHEET

MMP detection assay (96tests), Part Number 8931084

## Section 1. Identification

**Product identifier** : MMP detection assay (96tests), Part Number 8931084  
**Part no. (chemical kit)** : 8931084  
**Part no.** : DMSO Not available.  
 JC-1 Not available.

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : For In Vitro Diagnostic Use  
 DMSO 1 x 500 µl  
 JC-1 1 x 10 µg

**Supplier/Manufacturer** : Agilent Technologies, Inc.  
 5301 Stevens Creek Blvd  
 Santa Clara, CA 95051, USA  
 800-227-9770

**Emergency telephone number (with hours of operation)** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazard identification

### Classification of the substance or mixture

**DMSO**  
 H227 FLAMMABLE LIQUIDS - Category 4  
 H320 EYE IRRITATION - Category 2B

### GHS label elements

**Signal word** : DMSO Warning  
 JC-1 No signal word.  
**Hazard statements** : DMSO H227 - Combustible liquid.  
 H320 - Causes eye irritation.  
 JC-1 No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : DMSO P210 - Keep away from heat, hot surfaces, sparks,  
 open flames and other ignition sources. No smoking.  
 JC-1 Not applicable.  
**Response** : DMSO P305 + P351 + P338 - IF IN EYES: Rinse cautiously  
 with water for several minutes. Remove contact  
 lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical  
 advice or attention.  
 JC-1 Not applicable.  
**Storage** : DMSO Not applicable.  
 JC-1 Not applicable.  
**Disposal** : DMSO P501 - Dispose of contents and container in  
 accordance with all local, regional, national and  
 international regulations.  
 JC-1 Not applicable.  
**Supplemental label elements** : DMSO None known.  
 JC-1 None known.

## Section 2. Hazard identification

**Other hazards which do not result in classification** : DMSO None known.  
JC-1 None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : DMSO Substance  
JC-1 Substance

Ingredient name	Synonyms	% (w/w)	CAS number
<b>DMSO</b> Dimethyl sulfoxide	DMSO	100	67-68-5
<b>JC-1</b> 1H-Benzimidazolium, 5,6-dichloro-2-[3-(5,6-dichloro-1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)-1-propen-1-yl]-1,3-diethyl-, iodide (1:1)	JC-1	100	3520-43-2

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified 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

<b>Eye contact</b>	: DMSO	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	JC-1	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.
<b>Inhalation</b>	: DMSO	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	JC-1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## Section 4. First-aid measures

<b>Skin contact</b>	: DMSO  JC-1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: DMSO  JC-1	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. 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/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: DMSO JC-1	Causes eye irritation. No known significant effects or critical hazards.
<b>Inhalation</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: DMSO  JC-1	Adverse symptoms may include the following: irritation watering redness No specific data.
<b>Inhalation</b>	: DMSO JC-1	No specific data. No specific data.
<b>Skin contact</b>	: DMSO JC-1	No specific data. No specific data.
<b>Ingestion</b>	: DMSO JC-1	No specific data. No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

## Section 4. First-aid measures

<b>Notes to physician</b>	: DMSO  JC-1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Specific treatments</b>	: DMSO JC-1	No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: DMSO  JC-1	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: DMSO JC-1	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: DMSO JC-1	Do not use water jet. None known.
<b>Specific hazards arising from the chemical</b>	: DMSO  JC-1	Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. No specific fire or explosion hazard.
<b>Hazardous thermal decomposition products</b>	: DMSO  JC-1	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
<b>Special protective actions for fire-fighters</b>	: DMSO  JC-1	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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 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

## Section 5. Fire-fighting measures

<b>Special protective equipment for fire-fighters</b>	: DMSO	without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	JC-1	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

<b>For non-emergency personnel</b>	: DMSO	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	JC-1	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.
<b>For emergency responders</b>	: DMSO	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".
	JC-1	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".
<b>Environmental precautions</b>	: DMSO	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).
	JC-1	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).
<b><u>Methods and materials for containment and cleaning up</u></b>		
<b>Methods for cleaning up</b>	: DMSO	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	JC-1	Move containers from spill area. Vacuum or sweep

## Section 6. Accidental release measures

up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : DMSO

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

JC-1

Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : DMSO

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.

JC-1

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** : DMSO

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

JC-1

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

## Section 7. Handling and storage

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

Ingredient name	Exposure limits
<b>DMSO</b> Dimethyl sulfoxide	<b>OARS WEEL (United States, 4/2022).</b> TWA: 250 ppm 8 hours.

### Biological exposure indices

No exposure indices known.

### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### 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: chemical splash goggles.

### 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### 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.

## Section 8. Exposure controls/personal protection

**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.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

<b>Physical state</b>	: DMSO JC-1	Liquid. [Hygroscopic.] Solid.						
<b>Color</b>	: DMSO JC-1	Clear. Red.						
<b>Odor</b>	: DMSO JC-1	Sulfurous. [Slight] Not available.						
<b>Odor threshold</b>	: DMSO JC-1	Not available. Not available.						
<b>pH</b>	: DMSO JC-1	Not available. Not available.						
<b>Melting point/freezing point</b>	: DMSO JC-1	18.5°C (65.3°F) Not available.						
<b>Boiling point, initial boiling point, and boiling range</b>	: DMSO JC-1	189°C (372.2°F) Not available.						
<b>Flash point</b>	: DMSO JC-1	Closed cup: 87°C (188.6°F) [ASTM D 93] Open cup: 87°C (188.6°F) Not applicable.						
<b>Evaporation rate</b>	: DMSO JC-1	0.026 (butyl acetate = 1) Not available.						
<b>Flammability</b>	: DMSO JC-1	Combustible liquid Not available.						
<b>Lower and upper explosion limit/flammability limit</b>	: DMSO JC-1	Lower: 2.6% Upper: 42% Not applicable.						
<b>Vapor pressure</b>	: DMSO	0.059 kPa (0.4455366 mm Hg) [EU A.4]						
<b>Relative vapor density</b>	: DMSO JC-1	2.7 [Air = 1] Not applicable.						
<b>Relative density</b>	: DMSO JC-1	1.1 Not available.						
<b>Solubility(ies)</b>	: <table border="1" data-bbox="516 1528 1510 1644"> <thead> <tr> <th>Media</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>DMSO</td> <td></td> </tr> <tr> <td>water</td> <td>Soluble</td> </tr> </tbody> </table>	Media	Result	DMSO		water	Soluble	
Media	Result							
DMSO								
water	Soluble							
<b>Partition coefficient: n-octanol/water</b>	: DMSO JC-1	-1.35 Not available.						
<b>Auto-ignition temperature</b>	: DMSO JC-1	215°C (419°F) Not applicable.						
<b>Decomposition temperature</b>	: DMSO JC-1	140 to 189°C (284 to 372.2°F) Not available.						
<b>Viscosity</b>	: DMSO JC-1	Dynamic: -2.14 mPa·s (-2.14 cP) Not applicable.						

### Particle characteristics



## Section 9. Physical and chemical properties and safety characteristics

**Median particle size** : DMSO Not applicable.  
JC-1 Not available.

## Section 10. Stability and reactivity

**Reactivity** : DMSO No specific test data related to reactivity available for this product or its ingredients.  
JC-1 No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : DMSO The product is stable.  
JC-1 The product is stable.

**Possibility of hazardous reactions** : DMSO Under normal conditions of storage and use, hazardous reactions will not occur.  
JC-1 Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : DMSO Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.  
JC-1 No specific data.

**Incompatible materials** : DMSO Reactive or incompatible with the following materials: oxidizing materials  
JC-1 May react or be incompatible with oxidizing materials.

**Hazardous decomposition products** : DMSO Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
JC-1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
DMSO Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
DMSO Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

## Section 11. Toxicological information

### Sensitization

Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on the likely routes of exposure</b>	: DMSO JC-1	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available.
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### Potential acute health effects

<b>Eye contact</b>	: DMSO JC-1	Causes eye irritation. No known significant effects or critical hazards.
<b>Inhalation</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: DMSO JC-1	Adverse symptoms may include the following: irritation watering redness No specific data.
<b>Inhalation</b>	: DMSO JC-1	No specific data. No specific data.
<b>Skin contact</b>	: DMSO JC-1	No specific data. No specific data.
<b>Ingestion</b>	: DMSO JC-1	No specific data. No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

## Section 11. Toxicological information

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: DMSO JC-1	No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>DMSO</b> Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>DMSO</b> Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water Acute LC50 34000000 µg/l Fresh water Chronic NOEC 100 µl/L Marine water Chronic NOEC 100 µl/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Pimephales promelas</i> Algae - <i>Ulva lactuca</i> Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 96 hours 72 hours 21 days

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>DMSO</b> Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
<b>DMSO</b> Dimethyl sulfoxide	-	-	Not readily	

### Bioaccumulative potential

## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
DMSO Dimethyl sulfoxide	-1.35	3.16	Low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this 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 the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

**TDG / IMDG / IATA** : Not regulated.

### Additional information

**Remarks** : De minimis quantities

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI** : None of the components are listed.

**CEPA Toxic substances** : None of the components are listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Section 15. Regulatory information

### [Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

### [Inventory list](#)

**Canada** : Not determined.

**United States** : Not determined.

## Section 16. Other information

### [History](#)

**Date of issue/Date of revision** : 04/18/2024

**Date of previous issue** : No previous validation

**Version** : 1

### [Key to abbreviations](#)

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HPR = Hazardous Products Regulations  
 IATA = International Air Transport Association  
 IBC = Intermediate 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

### [Procedure used to derive the classification](#)

Classification	Justification
<b>DMSO</b> FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B	On basis of test data On basis of test data

✔ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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