Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

MMP detection assay (96tests), Part Number 8931084

Section 1. Identification

1.1 Product identifier

Product name : MMP detection assay (96tests), Part Number 8931084

Part no. (chemical kit) : 8931084

Part no. : DMSO — Not available.
JC-1 — Not available.

Validation date : 4/18/2024

1.2 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

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : DMSO — This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

JC-1 — While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

DMSO

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

2.2 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 flames and hot surfaces. No smoking.

JC-1 — Not applicable.

Section 2. Hazards identification

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	P403 + P235 - Store in a well-ventilated place. Keep cool.
		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.

2.3 Other hazards

Hazards not otherwise classified	:	DMSO	None known.
		JC-1	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	DMSO	Substance
		JC-1	Substance

Ingredient name	%	CAS number
DMSO		
Dimethyl sulfoxide	100	67-68-5
JC-1		
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)	100	3520-43-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

4.1 Description of necessary first aid measures

Eye contact	:	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.

Section 4. First aid measures

Inhalation	:	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.
Skin contact	:	DMSO	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.
		JC-1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	DMSO	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.
		JC-1	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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Section 4. First aid measures

Over-exposure signs/symptoms

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

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

Notes to physician	:	DMSO	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		JC-1	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.
Specific treatments	:	DMSO	No specific treatment.
		JC-1	No specific treatment.
Protection of first-aiders	:	DMSO	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.
		JC-1	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	DMSO	Use dry chemical, CO_2, water spray (fog) or foam.
		JC-1	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	DMSO	Do not use water jet.
		JC-1	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	:	DMSO	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.
		JC-1	No specific fire or explosion hazard.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products : DMSO

Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides

JC-1

Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

5.3 Advice for firefighters

Special protective actions for fire-fighters : DMSO

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.

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.

Special protective equipment for fire-fighters : DMSO

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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : 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.

For emergency responders : 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".

Section 6. Accidental release measures

6.2 Environmental precautions

: 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).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

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

Section 7. Handling and storage

7.1 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

Section 7. Handling and storage

for additional information on hygiene measures.

7.2 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 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.

7.3 Specific end use(s)

Recommendations

: DMSO

Industrial applications, Professional applications.

JC-1

Industrial applications, Professional applications.

Industrial sector specific solutions

: DMSO

Not available.

JC-1

Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
DMSO Dimethyl sulfoxide	**OARS WEEL (United States, 4/2022).** TWA: 250 ppm 8 hours.
JC-1 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)	None.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Section 8. Exposure controls/personal protection

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.

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

Physical state	:	DMSO	Liquid. [Hygroscopic.]
		JC-1	Solid.
Color	:	DMSO	Clear.
		JC-1	Red.
Odor	:	DMSO	Sulfurous. [Slight]
		JC-1	Not available.
Odor threshold	:	DMSO	Not available.
		JC-1	Not available.
pH	:	DMSO	Not available.
		JC-1	Not available.
Melting point/freezing point	:	DMSO	18.5°C (65.3°F)
		JC-1	Not available.

Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range : DMSO: 189°C (372.2°F)
JC-1: Not available.

Flash point : DMSO: Closed cup: 87°C (188.6°F) [ASTM D 93]
Open cup: 87°C (188.6°F)
JC-1: Not applicable.

Evaporation rate : DMSO: 0.026 (butyl acetate = 1)
JC-1: Not available.

Flammability : DMSO: Combustible liquid
JC-1: Not available.

Lower and upper explosion limit/flammability limit : DMSO: Lower: 2.6%
Upper: 42%
JC-1: Not applicable.

Vapor pressure : DMSO: 0.059 kPa (0.4455366 mm Hg) [EU A.4]

Relative vapor density : DMSO: 2.7 [Air = 1]
JC-1: Not applicable.

Relative density : DMSO: 1.1
JC-1: Not available.

Solubility(ies) :

Media	Result
DMSO water	Soluble

Partition coefficient: n-octanol/water : DMSO: -1.35
JC-1: Not available.

Auto-ignition temperature : DMSO: 215°C (419°F)
JC-1: Not applicable.

Decomposition temperature : DMSO: 140 to 189°C (284 to 372.2°F)
JC-1: Not available.

Viscosity : DMSO: Dynamic: -2.14 mPa·s (-2.14 cP)
JC-1: Not applicable.

Particle characteristics

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

Section 10. Stability and reactivity

10.1 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.

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

10.3 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.

10.4 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.

Section 10. Stability and reactivity

10.5 Incompatible materials

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

10.6 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

11.1 Information on toxicological effects

Acute toxicity

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

Irritation/Corrosion

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

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.

Information on the likely routes of exposure

DMSO	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
JC-1	Not available.

Section 11. Toxicological information

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	DMSO	No known significant effects or critical hazards.
		JC-1	No known significant effects or critical hazards.
Carcinogenicity	:	DMSO	No known significant effects or critical hazards.
		JC-1	No known significant effects or critical hazards.
Mutagenicity	:	DMSO	No known significant effects or critical hazards.
		JC-1	No known significant effects or critical hazards.
Reproductive toxicity	:	DMSO	No known significant effects or critical hazards.
		JC-1	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)
DMSO Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A

Section 11. Toxicological information

Section 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
DMSO Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
DMSO Dimethyl sulfoxide	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
DMSO Dimethyl sulfoxide	-1.35	3.16	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

Section 13. Disposal considerations

cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / 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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : DMSO — FLAMMABLE LIQUIDS - Category 4; EYE IRRITATION - Category 2B

JC-1 — Not applicable.

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
DMSO Dimethyl sulfoxide	100	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : The following components are listed: DIMETHYL SULFOXIDE; METHANE, SULFINYLBIS-

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Japan : **Japan inventory (CSCL)**: Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Other information

Procedure used to derive the classification

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

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
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

Indicates information that has changed from previously issued version.

Notice to reader

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