

SAFETY DATA SHEET



Agilent High Sensitivity Protein 250 Labeling Kit, Part Number 5067-1577

Section 1. Identification

1.1 Product identifier

Product name : Agilent High Sensitivity Protein 250 Labeling Kit, Part Number 5067-1577
Part no. (chemical kit) : 5067-1577
Part no. : High Sens Protein Labeling Reagents G2938-85001
 Dimethyl sulfoxide Not available.
 Protein 250 Labeling Buffer Not available.
 Ethanolamine solution Not available.
High Sens Protein Labeling Dye G2938-85002
 Protein 250 Labeling Dye Not available.

Validation date : 9/27/2023

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

Identified uses : Analytical chemistry.
 Research and Development
 Dimethyl sulfoxide 1 x 0.1 ml
 Protein 250 Labeling Dye 1 x 0.018 mg
 Protein 250 Labeling Buffer 1 x 1 ml
 Ethanolamine solution 1 x 0.1 ml

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 : Dimethyl sulfoxide This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 Protein 250 Labeling Dye This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 Protein 250 Labeling Buffer 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.
 Ethanolamine solution 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

Section 2. Hazards identification


Dimethyl sulfoxide

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

Protein 250 Labeling Dye

H318 SERIOUS EYE DAMAGE - Category 1

2.2 GHS label elements

Hazard pictograms	: Protein 250 Labeling Dye	
Signal word	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	Warning Danger No signal word. No signal word.
Hazard statements	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	H227 - Combustible liquid. H320 - Causes eye irritation. H318 - Causes serious eye damage. No known significant effects or critical hazards. No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	P210 - Keep away from flames and hot surfaces. No smoking. P280 - Wear eye or face protection. Not applicable. Not applicable.
Response	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	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. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Not applicable. Not applicable.
Storage	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	P403 + P235 - Store in a well-ventilated place. Keep cool. Not applicable. Not applicable. Not applicable.
Disposal	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	None known. None known. None known. None known.

Section 2. Hazards identification

2.3 Other hazards

Hazards not otherwise classified	:	Dimethyl sulfoxide	None known.
		Protein 250 Labeling Dye	None known.
		Protein 250 Labeling Buffer	None known.
		Ethanolamine solution	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Dimethyl sulfoxide	Substance
		Protein 250 Labeling Dye	Substance
		Protein 250 Labeling Buffer	Mixture
		Ethanolamine solution	Mixture

Ingredient name	%	CAS number
Dimethyl sulfoxide Dimethyl sulfoxide	100	67-68-5
Protein 250 Labeling Dye 3H-Indolium, 2-[3-[7-(diethylamino)-2-(1,1-dimethylethyl)-4H-1-benzopyran-4-ylidene]-1-propen-1-yl]-3-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-3-methyl-5-sulfo-1-(3-sulfopropyl)-, inner salt, sodium salt (1:1)	100	704891-70-3
Protein 250 Labeling Buffer Trometamol	≤5	77-86-1

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	:	Dimethyl sulfoxide	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.
		Protein 250 Labeling Dye	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
		Protein 250 Labeling Buffer	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.
		Ethanolamine solution	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

: Dimethyl sulfoxide

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.

Protein 250 Labeling Dye

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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. 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.

Protein 250 Labeling Buffer

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.

Ethanolamine solution

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

: Dimethyl sulfoxide

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.

Protein 250 Labeling Dye

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Protein 250 Labeling Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ethanolamine solution

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	: Dimethyl sulfoxide	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. Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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.
	Protein 250 Labeling Dye	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.
	Protein 250 Labeling Buffer	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.
	Ethanolamine solution	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	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	Causes eye irritation. Causes serious eye damage. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Section 4. First aid measures

Ingestion : Dimethyl sulfoxide No known significant effects or critical hazards.
 Protein 250 Labeling Dye No known significant effects or critical hazards.
 Protein 250 Labeling Buffer No known significant effects or critical hazards.
 Ethanolamine solution No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Dimethyl sulfoxide Adverse symptoms may include the following:
 irritation
 watering
 redness
 Protein 250 Labeling Dye Adverse symptoms may include the following:
 pain
 watering
 redness
 Protein 250 Labeling Buffer No specific data.
 Ethanolamine solution No specific data.

Inhalation : Dimethyl sulfoxide No specific data.
 Protein 250 Labeling Dye No specific data.
 Protein 250 Labeling Buffer No specific data.
 Ethanolamine solution No specific data.

Skin contact : Dimethyl sulfoxide No specific data.
 Protein 250 Labeling Dye Adverse symptoms may include the following:
 pain or irritation
 redness
 blistering may occur
 Protein 250 Labeling Buffer No specific data.
 Ethanolamine solution No specific data.

Ingestion : Dimethyl sulfoxide No specific data.
 Protein 250 Labeling Dye Adverse symptoms may include the following:
 stomach pains
 Protein 250 Labeling Buffer No specific data.
 Ethanolamine solution No specific data.

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

Notes to physician : Dimethyl sulfoxide Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
 Protein 250 Labeling Dye 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.
 Protein 250 Labeling Buffer 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.
 Ethanolamine solution Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : Dimethyl sulfoxide No specific treatment.
 Protein 250 Labeling Dye No specific treatment.
 Protein 250 Labeling Buffer No specific treatment.
 Ethanolamine solution No specific treatment.

Section 4. First aid measures

Protection of first-aiders	: Dimethyl sulfoxide	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.
	Protein 250 Labeling Dye	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Protein 250 Labeling Buffer	No action shall be taken involving any personal risk or without suitable training.
	Ethanolamine solution	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	: Dimethyl sulfoxide Protein 250 Labeling Dye	Use dry chemical, CO ₂ , water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.
	Protein 250 Labeling Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Ethanolamine solution	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	Do not use water jet. None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Dimethyl sulfoxide	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.
	Protein 250 Labeling Dye Protein 250 Labeling Buffer	No specific fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst.
	Ethanolamine solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Dimethyl sulfoxide	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	Protein 250 Labeling Dye	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

Section 5. Fire-fighting measures

Protein 250 Labeling Buffer		sulfur oxides metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides No specific data.
Ethanolamine solution		No specific data.
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Dimethyl sulfoxide	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.
Protein 250 Labeling Dye		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.
Protein 250 Labeling Buffer		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.
Ethanolamine solution		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	: Dimethyl sulfoxide	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Protein 250 Labeling Dye		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Protein 250 Labeling Buffer		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Ethanolamine solution		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	: Dimethyl sulfoxide	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.
Protein 250 Labeling Dye		No action shall be taken involving any personal

Section 6. Accidental release measures

	Protein 250 Labeling Buffer	risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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.
	Ethanolamine solution	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 :	 Dimethyl sulfoxide	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".
	Protein 250 Labeling Dye	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".
	Protein 250 Labeling Buffer	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".
	Ethanolamine solution	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".
6.2 Environmental precautions	 Dimethyl sulfoxide	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).
	Protein 250 Labeling Dye	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).
	Protein 250 Labeling Buffer	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).
	Ethanolamine solution	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

Section 6. Accidental release measures

Methods for cleaning up : Dimethyl sulfoxide

Protein 250 Labeling Dye

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.

Protein 250 Labeling Buffer

Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Ethanolamine solution

Stop leak if without risk. Move containers from spill area. 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.

Stop leak if without risk. Move containers from spill area. 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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : Dimethyl sulfoxide

Protein 250 Labeling Dye

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.

Protein 250 Labeling Buffer

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Ethanolamine solution

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

Section 7. Handling and storage

Advice on general occupational hygiene	: Dimethyl sulfoxide	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.
	Protein 250 Labeling Dye	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.
	Protein 250 Labeling Buffer	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.
	Ethanolamine solution	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.
7.2 Conditions for safe storage, including any incompatibilities	: Dimethyl sulfoxide	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.
	Protein 250 Labeling Dye	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. Store locked up. 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.
	Protein 250 Labeling Buffer	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

Section 7. Handling and storage

Ethanolamine solution

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. 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

: <input checked="" type="checkbox"/> Dimethyl sulfoxide	Industrial applications, Professional applications.
Protein 250 Labeling Dye	Industrial applications, Professional applications.
Protein 250 Labeling Buffer	Industrial applications, Professional applications.
Ethanolamine solution	Industrial applications, Professional applications.

Industrial sector specific solutions

: <input checked="" type="checkbox"/> Dimethyl sulfoxide	Not available.
Protein 250 Labeling Dye	Not available.
Protein 250 Labeling Buffer	Not available.
Ethanolamine solution	Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> Dimethyl sulfoxide Dimethyl sulfoxide	OARS WEEL (United States, 4/2022). TWA: 250 ppm 8 hours.
Protein 250 Labeling Dye 3H-Indolium, 2-[3-[7-(diethylamino)-2-(1,1-dimethylethyl)-4H-1-benzopyran-4-ylidene]-1-propen-1-yl]-3-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-3-methyl-5-sulfo-1-(3-sulfopropyl)-, inner salt, sodium salt (1:1)	None.
Protein 250 Labeling Buffer Trometamol	None.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Section 8. Exposure controls/personal protection

- 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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	: Dimethyl sulfoxide	Liquid. [Clear.]
	Protein 250 Labeling Dye	Solid. [lyophilised]
	Protein 250 Labeling Buffer	Liquid.
	Ethanolamine solution	Liquid.
Color	: Dimethyl sulfoxide	Colorless.
	Protein 250 Labeling Dye	Not available.
	Protein 250 Labeling Buffer	Not available.
	Ethanolamine solution	Not available.
Odor	: Dimethyl sulfoxide	Odorless. [Slight]
	Protein 250 Labeling Dye	Odorless.
	Protein 250 Labeling Buffer	Not available.
	Ethanolamine solution	Not available.
Odor threshold	: Dimethyl sulfoxide	Not available.
	Protein 250 Labeling Dye	Not available.
	Protein 250 Labeling Buffer	Not available.
	Ethanolamine solution	Not available.

Section 9. Physical and chemical properties and safety characteristics

pH	:	Dimethyl sulfoxide	Not available.
		Protein 250 Labeling Dye	Not available.
		Protein 250 Labeling Buffer	8.6 to 8.9
		Ethanolamine solution	Not available.
Melting point/freezing point	:	Dimethyl sulfoxide	18.5°C (65.3°F)
		Protein 250 Labeling Dye	Not available.
		Protein 250 Labeling Buffer	0°C (32°F)
		Ethanolamine solution	0°C (32°F)
Boiling point, initial boiling point, and boiling range	:	Dimethyl sulfoxide	189°C (372.2°F)
		Protein 250 Labeling Dye	Not available.
		Protein 250 Labeling Buffer	100°C (212°F)
		Ethanolamine solution	100°C (212°F)
Flash point	:	Dimethyl sulfoxide	Closed cup: 87°C (188.6°F) [ASTM D 93] Open cup: 87°C (188.6°F)
		Protein 250 Labeling Dye	Not applicable.
		Protein 250 Labeling Buffer	Not available.
		Ethanolamine solution	Not available.
Evaporation rate	:	Dimethyl sulfoxide	0.026 (butyl acetate = 1)
		Protein 250 Labeling Dye	Not available.
		Protein 250 Labeling Buffer	Not available.
		Ethanolamine solution	Not available.
Flammability	:	Dimethyl sulfoxide	Not applicable.
		Protein 250 Labeling Dye	May be combustible at high temperature.
		Protein 250 Labeling Buffer	Not applicable.
		Ethanolamine solution	Not applicable.
Lower and upper explosion limit/flammability limit	:	Dimethyl sulfoxide	Lower: 2.6% Upper: 28.5%
		Protein 250 Labeling Dye	Not applicable.
		Protein 250 Labeling Buffer	Not available.
		Ethanolamine solution	Not available.
Vapor pressure	:	Dimethyl sulfoxide	0.056 kPa (0.42 mm Hg) [EU A.4]

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Protein 250 Labeling Buffer						
water	17.5	2.3	-	92.258	12.3	-
Trometamol	<0.00075006	<0.0001	-	-	-	-
Ethanolamine solution						
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density	:	Dimethyl sulfoxide	2.7 [Air = 1]
		Protein 250 Labeling Dye	Not applicable.
		Protein 250 Labeling Buffer	Not available.
		Ethanolamine solution	Not available.
Relative density	:	Dimethyl sulfoxide	1.1
		Protein 250 Labeling Dye	Not available.
		Protein 250 Labeling Buffer	Not available.
		Ethanolamine solution	Not available.




Section 9. Physical and chemical properties and safety characteristics

Solubility(ies)	Media	Result
	Dimethyl sulfoxide	
	water	Soluble
	Protein 250 Labeling Dye	
	water	Soluble
	methanol	Soluble
	Protein 250 Labeling Buffer	
	water	Soluble
	Ethanolamine solution	
	water	Soluble
Partition coefficient: n-octanol/water	Dimethyl sulfoxide -1.35 Protein 250 Labeling Dye Not available. Protein 250 Labeling Buffer Not applicable. Ethanolamine solution Not applicable.	
Auto-ignition temperature	Dimethyl sulfoxide 300 to 302°C (572 to 575.6°F) Protein 250 Labeling Dye Not applicable.	
Decomposition temperature	Dimethyl sulfoxide 140 to 189°C (284 to 372.2°F) Protein 250 Labeling Dye Not available. Protein 250 Labeling Buffer Not available. Ethanolamine solution Not available.	
Viscosity	Dimethyl sulfoxide Dynamic: 2.14 mPa·s (2.14 cP) Protein 250 Labeling Dye Not applicable. Protein 250 Labeling Buffer Not available. Ethanolamine solution Not available.	
Particle characteristics		
Median particle size	Dimethyl sulfoxide Not applicable. Protein 250 Labeling Dye Not available. Protein 250 Labeling Buffer Not applicable. Ethanolamine solution Not applicable.	

Section 10. Stability and reactivity

10.1 Reactivity	Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

10.4 Conditions to avoid	:  Dimethyl sulfoxide	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.
	Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	No specific data. No specific data. No specific data.
10.5 Incompatible materials	:  Dimethyl sulfoxide	Reactive or incompatible with the following materials: oxidizing materials
	Protein 250 Labeling Dye	May react or be incompatible with oxidizing materials.
	Protein 250 Labeling Buffer	May react or be incompatible with oxidizing materials.
	Ethanolamine solution	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	:  Dimethyl sulfoxide	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Protein 250 Labeling Dye	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Protein 250 Labeling Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ethanolamine solution	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
Dimethyl sulfoxide Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	- -
Protein 250 Labeling Buffer Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
 Dimethyl sulfoxide Dimethyl sulfoxide	Eyes - Mild irritant Eyes - Mild irritant	Rabbit Rabbit	- -	100 mg 24 hours 500 mg	- -
	Skin - Mild irritant Skin - Mild irritant	Rabbit Rabbit	- -	100 mg 24 hours 500 mg	- -
Protein 250 Labeling Buffer Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	- -	25 % 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)

Name	Category	Route of exposure	Target organs
Protein 250 Labeling Buffer Trometamol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: Dimethyl sulfoxide	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Protein 250 Labeling Dye	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Protein 250 Labeling Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Ethanolamine solution	Not available.

Potential acute health effects

Eye contact	: Dimethyl sulfoxide	Causes eye irritation.
	Protein 250 Labeling Dye	Causes serious eye damage.
	Protein 250 Labeling Buffer	No known significant effects or critical hazards.
	Ethanolamine solution	No known significant effects or critical hazards.
Inhalation	: Dimethyl sulfoxide	No known significant effects or critical hazards.
	Protein 250 Labeling Dye	No known significant effects or critical hazards.
	Protein 250 Labeling Buffer	No known significant effects or critical hazards.
	Ethanolamine solution	No known significant effects or critical hazards.
Skin contact	: Dimethyl sulfoxide	No known significant effects or critical hazards.
	Protein 250 Labeling Dye	No known significant effects or critical hazards.
	Protein 250 Labeling Buffer	No known significant effects or critical hazards.
	Ethanolamine solution	No known significant effects or critical hazards.
Ingestion	: Dimethyl sulfoxide	No known significant effects or critical hazards.
	Protein 250 Labeling Dye	No known significant effects or critical hazards.
	Protein 250 Labeling Buffer	No known significant effects or critical hazards.
	Ethanolamine solution	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: Dimethyl sulfoxide	Adverse symptoms may include the following: irritation watering redness
	Protein 250 Labeling Dye	Adverse symptoms may include the following: pain watering redness
	Protein 250 Labeling Buffer Ethanolamine solution	No specific data. No specific data.
Inhalation	: Dimethyl sulfoxide	No specific data.
	Protein 250 Labeling Dye	No specific data.
	Protein 250 Labeling Buffer Ethanolamine solution	No specific data. No specific data.
Skin contact	: Dimethyl sulfoxide	No specific data.
	Protein 250 Labeling Dye	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Protein 250 Labeling Buffer Ethanolamine solution	No specific data. No specific data.
Ingestion	: Dimethyl sulfoxide	No specific data.
	Protein 250 Labeling Dye	Adverse symptoms may include the following: stomach pains
	Protein 250 Labeling Buffer Ethanolamine solution	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.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: Dimethyl sulfoxide Protein 250 Labeling Dye Protein 250 Labeling Buffer Ethanolamine solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Section 11. Toxicological information

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)
Dimethyl sulfoxide Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Dimethyl sulfoxide 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
Protein 250 Labeling Buffer Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Dimethyl sulfoxide Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-
Protein 250 Labeling Buffer Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Dimethyl sulfoxide Dimethyl sulfoxide	-	-	Not readily
Protein 250 Labeling Buffer Trometamol	-	-	Readily

12.3 Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Dimethyl sulfoxide Dimethyl sulfoxide	-1.35	3.16	Low
Protein 250 Labeling Buffer Trometamol	-2.31	-	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. 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.

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

: Dimethyl sulfoxide

Protein 250 Labeling Dye
Protein 250 Labeling Buffer
Ethanolamine solution

FLAMMABLE LIQUIDS - Category 4
EYE IRRITATION - Category 2B
SERIOUS EYE DAMAGE - Category 1
Not applicable.
Not applicable.

Composition/information on ingredients

Name	%	Classification
Dimethyl sulfoxide Dimethyl sulfoxide	100	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B
Protein 250 Labeling Dye 3H-Indolium, 2-[3-[7-(diethylamino)-2-(1,1-dimethylethyl)-4H-1-benzopyran-4-ylidene]-1-propen-1-yl]-3-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-3-methyl-5-sulfo-1-(3-sulfopropyl)-, inner salt, sodium salt (1:1)	100	SERIOUS EYE DAMAGE - Category 1
Protein 250 Labeling Buffer Trometamol	≤5	COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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.

Section 15. Regulatory information

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	: Not determined.
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
Dimethyl sulfoxide FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B	On basis of test data On basis of test data
Protein 250 Labeling Dye SERIOUS EYE DAMAGE - Category 1	Expert judgment

History

Date of issue/Date of revision	: 09/27/2023
Date of previous issue	: 09/02/2020
Version	: 8

Section 16. Other information

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.

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