

Section 2. Hazards identification

SDS should be retained and available for employees and other users of this product.

Small RNA Ladder

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

Small RNA Dye Concentrate

H227
H320

FLAMMABLE LIQUIDS - Category 4
EYE IRRITATION - Category 2B

Ingredients of unknown toxicity

Small RNA Marker

Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%

Small RNA Gel Matrix

Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 10 - 30%

Small RNA Conditioning Solution

Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 10 - 30%
Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 10 - 30%

2.2 GHS label elements

Signal word

Small RNA Marker No signal word.
Small RNA Dye Concentrate Warning
Small RNA Gel Matrix No signal word.
Small RNA Conditioning Solution No signal word.
Small RNA Ladder No signal word.

Hazard statements

Small RNA Marker No known significant effects or critical hazards.
Small RNA Dye Concentrate H227 - Combustible liquid.
H320 - Causes eye irritation.
Small RNA Gel Matrix No known significant effects or critical hazards.
Small RNA Conditioning Solution No known significant effects or critical hazards.
Small RNA Ladder No known significant effects or critical hazards.

Precautionary statements

Prevention

Small RNA Marker Not applicable.
Small RNA Dye Concentrate P280 - Wear protective gloves. Wear eye or face protection.
P210 - Keep away from flames and hot surfaces. - No smoking.
P264 - Wash hands thoroughly after handling.
Small RNA Gel Matrix Not applicable.
Small RNA Conditioning Solution Not applicable.
Small RNA Ladder Not applicable.

Section 2. Hazards identification

Response	: <input checked="" type="checkbox"/> Small RNA Marker Small RNA Dye Concentrate	Not applicable. 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 attention.
Storage	: <input checked="" type="checkbox"/> Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	Not applicable. P403 - Store in a well-ventilated place. P235 - Keep cool. Not applicable. Not applicable. Not applicable.
Disposal	: <input checked="" type="checkbox"/> Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	Not applicable. 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	: <input checked="" type="checkbox"/> Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	None known. None known. None known. None known. None known.

2.3 Other hazards

Hazards not otherwise classified	: <input checked="" type="checkbox"/> Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	None known. None known. None known. None known. None known.
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Section 3. Composition/information on ingredients

Substance/mixture	: Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	Mixture Mixture Mixture Mixture Mixture
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Ingredient name	%	CAS number
<input checked="" type="checkbox"/> Small RNA Marker Dimethyl sulfoxide	<10	67-68-5
Small RNA Dye Concentrate Dimethyl sulfoxide	≥90	67-68-5

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 as hazardous to health or the environment 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	: Small RNA Marker	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.
	Small RNA Dye Concentrate	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.
	Small RNA Gel Matrix	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.
	Small RNA Conditioning 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.
	Small RNA Ladder	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.
Inhalation	: Small RNA Marker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Small RNA Dye Concentrate	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.
	Small RNA Gel Matrix	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.
	Small RNA Conditioning Solution	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.
	Small RNA Ladder	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First aid measures

Skin contact	: Small RNA Marker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Small RNA Dye Concentrate	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.
	Small RNA Gel Matrix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Small RNA Conditioning Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Small RNA Ladder	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Small RNA Marker	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	Small RNA Dye Concentrate	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	Small RNA Gel Matrix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	Small RNA Conditioning Solution	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	Small RNA Ladder	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting

Section 4. First aid measures

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	: Small RNA Marker	No known significant effects or critical hazards.
	Small RNA Dye Concentrate	Causes eye irritation.
	Small RNA Gel Matrix	No known significant effects or critical hazards.
	Small RNA Conditioning Solution	No known significant effects or critical hazards.
	Small RNA Ladder	No known significant effects or critical hazards.
Inhalation	: Small RNA Marker	No known significant effects or critical hazards.
	Small RNA Dye Concentrate	No known significant effects or critical hazards.
	Small RNA Gel Matrix	No known significant effects or critical hazards.
	Small RNA Conditioning Solution	No known significant effects or critical hazards.
	Small RNA Ladder	No known significant effects or critical hazards.
Skin contact	: Small RNA Marker	No known significant effects or critical hazards.
	Small RNA Dye Concentrate	No known significant effects or critical hazards.
	Small RNA Gel Matrix	No known significant effects or critical hazards.
	Small RNA Conditioning Solution	No known significant effects or critical hazards.
	Small RNA Ladder	No known significant effects or critical hazards.
Ingestion	: Small RNA Marker	No known significant effects or critical hazards.
	Small RNA Dye Concentrate	No known significant effects or critical hazards.
	Small RNA Gel Matrix	No known significant effects or critical hazards.
	Small RNA Conditioning Solution	No known significant effects or critical hazards.
	Small RNA Ladder	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Small RNA Marker	No specific data.
	Small RNA Dye Concentrate	Adverse symptoms may include the following: irritation watering redness
	Small RNA Gel Matrix	No specific data.
	Small RNA Conditioning Solution	No specific data.
	Small RNA Ladder	No specific data.
Inhalation	: Small RNA Marker	No specific data.
	Small RNA Dye Concentrate	No specific data.
	Small RNA Gel Matrix	No specific data.
	Small RNA Conditioning Solution	No specific data.
	Small RNA Ladder	No specific data.
Skin contact	: Small RNA Marker	No specific data.
	Small RNA Dye Concentrate	No specific data.
	Small RNA Gel Matrix	No specific data.
	Small RNA Conditioning Solution	No specific data.
	Small RNA Ladder	No specific data.
Ingestion	: Small RNA Marker	No specific data.
	Small RNA Dye Concentrate	No specific data.
	Small RNA Gel Matrix	No specific data.
	Small RNA Conditioning Solution	No specific data.
	Small RNA Ladder	No specific data.

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

Section 4. First aid measures

Notes to physician	: Small RNA Marker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Small RNA Dye Concentrate	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Small RNA Gel Matrix	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.
	Small RNA Conditioning Solution	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.
	Small RNA Ladder	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Small RNA Marker	No specific treatment.
	Small RNA Dye Concentrate	No specific treatment.
	Small RNA Gel Matrix	No specific treatment.
	Small RNA Conditioning Solution	No specific treatment.
	Small RNA Ladder	No specific treatment.
Protection of first-aiders	: Small RNA Marker	No action shall be taken involving any personal risk or without suitable training.
	Small RNA Dye Concentrate	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.
	Small RNA Gel Matrix	No action shall be taken involving any personal risk or without suitable training.
	Small RNA Conditioning Solution	No action shall be taken involving any personal risk or without suitable training.
	Small RNA Ladder	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	: Small RNA Marker	Use an extinguishing agent suitable for the surrounding fire.
	Small RNA Dye Concentrate	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Small RNA Gel Matrix	Use an extinguishing agent suitable for the surrounding fire.
	Small RNA Conditioning Solution	Use an extinguishing agent suitable for the surrounding fire.
	Small RNA Ladder	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Small RNA Marker	None known.
	Small RNA Dye Concentrate	Do not use water jet.
	Small RNA Gel Matrix	None known.
	Small RNA Conditioning Solution	None known.
	Small RNA Ladder	None known.

5.2 Special hazards arising from the substance or mixture

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Specific hazards arising from the chemical

: Small RNA Marker	In a fire or if heated, a pressure increase will occur and the container may burst.
Small RNA Dye Concentrate	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.
Small RNA Gel Matrix	In a fire or if heated, a pressure increase will occur and the container may burst.
Small RNA Conditioning Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Small RNA Ladder	In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Small RNA Marker	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
Small RNA Dye Concentrate	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
Small RNA Gel Matrix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Small RNA Conditioning Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Small RNA Ladder	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Small RNA Marker	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.
Small RNA Dye Concentrate	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.
Small RNA Gel Matrix	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.
Small RNA Conditioning 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.
Small RNA Ladder	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

Special protective equipment for fire-fighters

Small RNA Marker	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.
Small RNA Dye Concentrate	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Small RNA Gel Matrix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Small RNA Conditioning Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Small RNA Ladder	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

Small RNA Marker	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.
Small RNA Dye Concentrate	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.
Small RNA Gel Matrix	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.
Small RNA Conditioning 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.
Small RNA Ladder	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.

Section 6. Accidental release measures

For emergency responders	: Small RNA Marker	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".
	Small RNA Dye Concentrate	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".
	Small RNA Gel Matrix	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".
	Small RNA Conditioning 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".
	Small RNA Ladder	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	: Small RNA Marker	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).
	Small RNA Dye Concentrate	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).
	Small RNA Gel Matrix	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).
	Small RNA Conditioning 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).
	Small RNA Ladder	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	: Small RNA Marker	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.
	Small RNA Dye Concentrate	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

Section 6. Accidental release measures

Small RNA Gel Matrix	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.
Small RNA Conditioning 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.
Small RNA Ladder	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

: Small RNA Marker	Put on appropriate personal protective equipment (see Section 8).
Small RNA Dye Concentrate	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.
Small RNA Gel Matrix	Put on appropriate personal protective equipment (see Section 8).
Small RNA Conditioning Solution	Put on appropriate personal protective equipment (see Section 8).
Small RNA Ladder	Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Small RNA Marker	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.
Small RNA Dye Concentrate	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

Section 7. Handling and storage

Small RNA Gel Matrix

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. 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.

Small RNA Conditioning 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.

Small RNA Ladder

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

:  Small RNA Marker

Storage temperature: 4°C (39.2°F). 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.

Small RNA Dye Concentrate

Storage temperature: 4°C (39.2°F). 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.

Small RNA Gel Matrix

Storage temperature: 4°C (39.2°F). 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

Small RNA Conditioning 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. Storage temperature: 4°C (39.2°F). 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. Storage temperature: -20°C (-4°F). 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.

Small RNA Ladder

7.3 Specific end use(s)

Recommendations

: Small RNA Marker	Industrial applications, Professional applications.
Small RNA Dye Concentrate	Industrial applications, Professional applications.
Small RNA Gel Matrix	Industrial applications, Professional applications.
Small RNA Conditioning Solution	Industrial applications, Professional applications.
Small RNA Ladder	Industrial applications, Professional applications.

Industrial sector specific solutions

: Small RNA Marker	Not applicable.
Small RNA Dye Concentrate	Not applicable.
Small RNA Gel Matrix	Not applicable.
Small RNA Conditioning Solution	Not applicable.
Small RNA Ladder	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Small RNA Marker Dimethyl sulfoxide	AIHA WEEL (United States, 10/2011). TWA: 250 ppm 8 hours.
Small RNA Dye Concentrate Dimethyl sulfoxide	AIHA WEEL (United States, 10/2011). TWA: 250 ppm 8 hours.

Section 8. Exposure controls/personal protection

8.2 Exposure controls

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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

9.1 Information on basic physical and chemical properties

Appearance

- | | | |
|-----------------------|-----------------------------------|----------------|
| Physical state | : Small RNA Marker | Liquid. |
| | : Small RNA Dye Concentrate | Liquid. |
| | : Small RNA Gel Matrix | Liquid. |
| | : Small RNA Conditioning Solution | Liquid. |
| | : Small RNA Ladder | Liquid. |
| Color | : Small RNA Marker | Not available. |
| | : Small RNA Dye Concentrate | Blue. |
| | : Small RNA Gel Matrix | Not available. |
| | : Small RNA Conditioning Solution | Not available. |
| | : Small RNA Ladder | Not available. |

Section 9. Physical and chemical properties

Odor	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Odor threshold	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
pH	: Small RNA Marker	8
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Melting point	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	18.5°C (65.3°F)
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	0°C (32°F)
Boiling point	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	189°C (372.2°F)
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	100°C (212°F)
Flash point	: Small RNA Marker	Closed cup: >93.3°C (>199.9°F)
	Small RNA Dye Concentrate	Closed cup: 87°C (188.6°F)
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Evaporation rate	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Flammability (solid, gas)	: Small RNA Marker	Not applicable.
	Small RNA Dye Concentrate	Not applicable.
	Small RNA Gel Matrix	Not applicable.
	Small RNA Conditioning Solution	Not applicable.
	Small RNA Ladder	Not applicable.
Lower and upper explosive (flammable) limits	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Vapor pressure	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Vapor density	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.

Section 9. Physical and chemical properties

Relative density	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Solubility	: Small RNA Marker	Easily soluble in the following materials: cold water and hot water.
	Small RNA Dye Concentrate	Easily soluble in the following materials: cold water and hot water.
	Small RNA Gel Matrix	Soluble in the following materials: cold water and hot water.
	Small RNA Conditioning Solution	Soluble in the following materials: cold water and hot water.
	Small RNA Ladder	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Auto-ignition temperature	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Decomposition temperature	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Viscosity	: Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Gel Matrix	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: Small RNA Marker	No specific test data related to reactivity available for this product or its ingredients.
	Small RNA Dye Concentrate	No specific test data related to reactivity available for this product or its ingredients.
	Small RNA Gel Matrix	No specific test data related to reactivity available for this product or its ingredients.
	Small RNA Conditioning Solution	No specific test data related to reactivity available for this product or its ingredients.
	Small RNA Ladder	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Small RNA Marker	The product is stable.
	Small RNA Dye Concentrate	The product is stable.
	Small RNA Gel Matrix	The product is stable.
	Small RNA Conditioning Solution	The product is stable.
	Small RNA Ladder	The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: Small RNA Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
	Small RNA Dye Concentrate	Under normal conditions of storage and use, hazardous reactions will not occur.
	Small RNA Gel Matrix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Small RNA Conditioning Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
	Small RNA Ladder	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Small RNA Marker	No specific data.
	Small RNA Dye Concentrate	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.
	Small RNA Gel Matrix	No specific data.
	Small RNA Conditioning Solution	No specific data.
	Small RNA Ladder	No specific data.
10.5 Incompatible materials	: Small RNA Marker	May react or be incompatible with oxidizing materials.
	Small RNA Dye Concentrate	Reactive or incompatible with the following materials: oxidizing materials
	Small RNA Gel Matrix	May react or be incompatible with oxidizing materials.
	Small RNA Conditioning Solution	May react or be incompatible with oxidizing materials.
	Small RNA Ladder	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: Small RNA Marker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Small RNA Dye Concentrate	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Small RNA Gel Matrix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Small RNA Conditioning Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Small RNA Ladder	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

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Small RNA Marker Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
Small RNA Dye Concentrate Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Small RNA Marker Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-
Small RNA Dye Concentrate Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>Not available. Routes of entry anticipated: Oral, Dermal, Inhalation.</p> <p>Not available. Not available. Not available.</p>
<u>Potential acute health effects</u>		
Eye contact	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>No known significant effects or critical hazards. Causes eye irritation.</p> <p>No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.</p>
Inhalation	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>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. No known significant effects or critical hazards.</p>
Skin contact	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>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. No known significant effects or critical hazards.</p>
Ingestion	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>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. No known significant effects or critical hazards.</p>

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>No specific data.</p> <p>Adverse symptoms may include the following: irritation watering redness</p> <p>No specific data. No specific data. No specific data.</p>
Inhalation	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>No specific data. No specific data. No specific data. No specific data. No specific data.</p>
Skin contact	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>No specific data. No specific data. No specific data. No specific data. No specific data.</p>
Ingestion	<ul style="list-style-type: none"> : Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder 	<p>No specific data. No specific data. No specific data. No specific data. No specific data.</p>

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

Short term exposure

Section 11. Toxicological information

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	: Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	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. No known significant effects or critical hazards.
Carcinogenicity	: Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	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. No known significant effects or critical hazards.
Mutagenicity	: Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	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. No known significant effects or critical hazards.
Teratogenicity	: Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	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. No known significant effects or critical hazards.
Developmental effects	: Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	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. No known significant effects or critical hazards.
Fertility effects	: Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	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. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Other information	: Small RNA Marker Small RNA Dye Concentrate Small RNA Gel Matrix Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available.
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Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Small RNA Marker Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Ulva lactuca	72 hours
Small RNA Dye Concentrate Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Ulva lactuca	72 hours

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Small RNA Marker Dimethyl sulfoxide	-1.35	3.16	low
Small RNA Dye Concentrate 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 13. Disposal considerations

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 Annex II of MARPOL and the IBC Code : 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	:	Small RNA Marker	Not applicable.
		Small RNA Dye Concentrate	Fire hazard
			Immediate (acute) health hazard
		Small RNA Gel Matrix	Not applicable.
		Small RNA Conditioning Solution	Not applicable.
		Small RNA Ladder	Not applicable.

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
<input checked="" type="checkbox"/> Small RNA Marker Dimethyl sulfoxide	<10	Yes.	No.	No.	Yes.	No.
<input checked="" type="checkbox"/> Small RNA Dye Concentrate Dimethyl sulfoxide	≥90	Yes.	No.	No.	Yes.	No.

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, SULFINYLBI-
- Pennsylvania** : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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.
- Europe** : Not determined.
- Japan** : **Japan inventory (ENCS)**: Not determined.
 Japan inventory (ISHL): Not determined.
- Malaysia** : 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

History

Date of issue : 10/30/2017

Date of previous issue : 11/03/2015.

Version : 5

✔ Indicates information that has changed from previously issued version.

Notice to reader

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