SAFETY DATA SHEET



StrataPrep Plasmid Miniprep Kit, Part Number 400763

Section 1. Identification

1.1 Product identifier			
Product name	: StrataPrep Plasmid Miniprep Kit, Part Numb	per 400763	
Part no. (chemical kit)	: 400763		
Part no.	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	400763-13 400763-14 400763-15 400763-16 400763-17	
Validation date	: 11/26/2021		
<u>1.2 Relevant identified uses of the substance or mixture and uses advised against</u>			
Material uses	: Analytical reagent.		
	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	5 x 6 ml 5 x 6 ml 9 x 5 ml 25 x 5 ml 5 x 40 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

2.1 Classification of the	<u>substance or mixture</u>	
OSHA/HCS status	: Solution 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	Solution 2	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Solution 3	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Wash 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.
	Nuclease Removal Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the sul	hstance or mixture	

Solution 2		
H314	SKIN CORROSION - Category	
H318	SERIOUS EYE DAMAGE - Ca	itegory 1
Colution 2		
Solution 3		
H302	ACUTE TOXICITY (oral) - Cat	
H312	ACUTE TOXICITY (dermal) - (
H332	ACUTE TOXICITY (inhalation)	
H314	SKIN CORROSION - Category	
H318	SERIOUS EYE DAMAGE - Ca	
H412	AQUATIC HAZARD (LONG-TI	ERM) - Category 3
Nuclease Removal Buffer		
H225	FLAMMABLE LIQUIDS - Cate	aory 2
H302	ACUTE TOXICITY (oral) - Cate	
H314	SKIN CORROSION - Category	
H318	SERIOUS EYE DAMAGE - Ca	
H336		TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
1000	Category 3	I OTION I (OINGLE EAFOOURE) (INAICOUC EIIECIS) -
Ingredients of unknown	: Solution 3	Percentage of the mixture consisting of ingredient
toxicity		(s) of unknown acute dermal toxicity: 1 - 10%
IUNICITY		
		Percentage of the mixture consisting of ingredient
		(s) of unknown acute inhalation toxicity: 1 - 10%
2.2 GHS label elements		
Hazard pictograms	: Solution 2	
		<u> </u>
		~
	Solution 3	
		 <!--</td-->
	Nuclease Removal Buffer	
		<u> </u>
		$\nabla \vee \nabla$
Cine al mand		
Signal word	Solution 1	No signal word.
	Solution 2	Danger
	Solution 3	Danger
	Wash Buffer	No signal word.
	Nuclease Removal Buffer	Danger
Hazard statements	: Solution 1	No known significant effects or critical hazards.
	Solution 2	H314 - Causes severe skin burns and eye damage.
	Solution 3	H302 + H312 + H332 - Harmful if swallowed, in
		contact with skin or if inhaled.
		H314 - Causes severe skin burns and eye damage.
		H412 - Harmful to aquatic life with long lasting
		effects.
	Wash Buffer	No known significant effects or critical hazards.
	Nuclease Removal Buffer	H225 - Highly flammable liquid and vapor.
	NUCIEASE NEITIOVAI DUITEI	H225 - Highly flammable liquid and vapor. H302 - Harmful if swallowed.
		H314 - Causes severe skin burns and eye damage. H336 - May cause drowsiness or dizziness.
Precautionary statements		1 1000 - May Cause Uluwaniess Ul UIZZINESS.
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Prevention	: Solution 1	Not applicable.
	Solution 2	P280 - Wear protective gloves, protective clothing and eye or face protection.
	Solution 3	P280 - Wear protective gloves, protective clothing
		and eye or face protection.
		P273 - Avoid release to the environment.
		P261 - Avoid breathing vapor.
		P270 - Do not eat, drink or smoke when using this product.
		P264 - Wash thoroughly after handling.
	Wash Buffer	Not applicable.
	Nuclease Removal Buffer	P280 - Wear protective gloves, protective clothing
		and eye or face protection.
		P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P241 - Use explosion-proof electrical, ventilating or lighting equipment.
		P242 - Use non-sparking tools.
		P243 - Take action to prevent static discharges.
		P261 - Avoid breathing vapor. P270 - Do not eat, drink or smoke when using this
		product.
		P264 - Wash thoroughly after handling.
Response	: Solution 1	Not applicable.
	Solution 2	P304 + P310 - IF INHALED: Immediately call a
		POISON CENTER or doctor.
		P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
		Rinse mouth. Do NOT induce vomiting.
		P303 + P361 + P353, P310 - IF ON SKIN (or hair):
		Take off immediately all contaminated clothing.
		Rinse skin with water. Immediately call a POISON CENTER or doctor.
		P363 - Wash contaminated clothing before reuse.
		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.
	Solution 3	P304 + P310 - IF INHALED: Immediately call a
		POISON CENTER or doctor.
		P301 + P310, P330, P331 - IF SWALLOWED:
		Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
		P303 + P361 + P353, P310 - IF ON SKIN (or hair):
		Take off immediately all contaminated clothing.
		Rinse skin with water. Immediately call a POISON
		CENTER or doctor.
		P363 - Wash contaminated clothing before reuse. P302 + P312 - IF ON SKIN: Call a POISON
		CENTER or doctor if you feel unwell.
		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.
	Wash Buffer	Not applicable.
	Nuclease Removal Buffer	P304 + P310 - IF INHALED: Immediately call a
		POISON CENTER or doctor.
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		 P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. P363 - Wash contaminated clothing before reuse. 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.
Storage	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Not applicable. Not applicable. Not applicable. Not applicable. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	Solution 1 Solution 2	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in
	Wash Buffer Nuclease Removal Buffer	accordance with all local, regional, national and international regulations. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Solution 1 Solution 2	None known. Keep container tightly closed. Do not breathe vapor or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.
	Solution 3	Keep container tightly closed. Do not breathe vapor or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.
	Wash Buffer Nuclease Removal Buffer	None known. Keep container tightly closed. Do not breathe vapor or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.
2.3 Other hazards		
Hazards not otherwise classified	: Solution 1 Solution 2	None known. Causes respiratory tract burns. Causes digestive tract burns.
	Solution 3	Causes respiratory tract burns. Causes digestive tract burns.
	Wash Buffer Nuclease Removal Buffer	None known. Causes respiratory tract burns. Causes digestive tract burns.

Section 3. Composition/information on ingredients

Substance/mixture

: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer Mixture Mixture Mixture Mixture Mixture

Ingredient name	%	CAS number
Solution 2		
Sodium dodecyl sulphate	≤3	151-21-3
Sodium hydroxide	<1	1310-73-2
Solution 3		
Guanidinium thiocyanate	≥25 - ≤50	593-84-0
Acetic acid	≥10 - ≤21	64-19-7
Wash Buffer		
Sodium chloride	≤3	7647-14-5
Nuclease Removal Buffer		
Propan-2-ol	≥50 - ≤75	67-63-0
Guanidinium thiocyanate	≥10 - <25	593-84-0
Acetic acid	≤10	64-19-7

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.

4.1 Description of nec	<u>essary first aid measures</u>	
Eye contact	: Solution 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Solution 2	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.
	Solution 3	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.
	Wash 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.
	Nuclease Removal Buffer	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.
Inhalation	: Solution 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Solution 2	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.
	Solution 3	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.
	Wash Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Nuclease Removal Buffer	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.

Skin contact	: Solution 1	Flush contaminated skin with plenty of water.
		Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Solution 2	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.
	Solution 3	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and 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.
	Wash Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Nuclease Removal Buffer	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.
Ingestion	: Solution 1	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Solution 2	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
	Solution 3	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
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		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.
	Wash 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.
	Nuclease Removal Buffer	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.
4.2 Most important sy Potential acute healt	mptoms/effects, acute and delayed h effects	
Eye contact	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	No known significant effects or critical hazards. Causes serious eye damage. Causes serious eye damage. No known significant effects or critical hazards. Causes serious eye damage.
Inhalation	: Solution 1 Solution 2 Solution 3	No known significant effects or critical hazards. Corrosive to the respiratory system. Harmful if inhaled. Corrosive to the respiratory system.
	Wash Buffer Nuclease Removal Buffer	No known significant effects or critical hazards. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Corrosive to the respiratory system.
Skin contact	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	No known significant effects or critical hazards. Causes severe burns. Causes severe burns. Harmful in contact with skin. No known significant effects or critical hazards. Causes severe burns.
Ingestion	: Solution 1 Solution 2 Solution 3	No known significant effects or critical hazards. May cause burns to mouth, throat and stomach. Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach. Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
	Wash Buffer Nuclease Removal Buffer	No known significant effects or critical hazards. May cause burns to mouth, throat and stomach.

		Harmful if swallowed. Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympt	toms	
Eye contact	: Solution 1 Solution 2	No specific data. Adverse symptoms may include the following: pain watering redness
	Solution 3	Adverse symptoms may include the following: pain watering redness
	Wash Buffer	No specific data.
	Nuclease Removal Buffer	Adverse symptoms may include the following: pain watering redness
Inhalation	: Solution 1 Solution 2	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
	Solution 3	Adverse symptoms may include the following: respiratory tract irritation coughing
	Wash Buffer	No specific data.
	Nuclease Removal Buffer	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Solution 1 Solution 2	No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Solution 3	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Wash Buffer Nuclease Removal Buffer	No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Solution 1 Solution 2	No specific data. Adverse symptoms may include the following: stomach pains
	Solution 3	Adverse symptoms may include the following: stomach pains
	Wash Buffer Nuclease Removal Buffer	No specific data. Adverse symptoms may include the following: stomach pains

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

Notes to physician	: Solution 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Solution 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Solution 3	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical
	Wash Buffer	surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nuclease Removal 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.
Specific treatments	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: Solution 1	No action shall be taken involving any personal risk
	Solution 2	or without suitable training. 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.
	Solution 3	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.
	Wash Buffer	No action shall be taken involving any personal risk
	Nuclease Removal Buffer	or without suitable training. 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5	- J	
5.1 Extinguishing media		
Suitable extinguishing media	: Solution 1	Use an extinguishing agent suitable for the surrounding fire.
moun	Solution 2	Use an extinguishing agent suitable for the surrounding fire.
	Solution 3	Use an extinguishing agent suitable for the surrounding fire.
	Wash Buffer	Use an extinguishing agent suitable for the surrounding fire.
	Nuclease Removal Buffer	Use dry chemical, CO_2 , water spray (fog) or foam.
Unquitable extinguishing		None known.
Unsuitable extinguishing media	: Solution 1 Solution 2	None known.
media	Solution 3	None known.
	Wash Buffer	None known.
	Nuclease Removal Buffer	Do not use water jet.
	from the substance or mixture	
Specific hazards arising from the chemical	: Solution 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Solution 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	Solution 3	In a fire or if heated, a pressure increase will occur and the container may burst. This material is
		harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be
		contained and prevented from being discharged to
	Wash Buffer	any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur
	Nuclease Removal Buffer	and the container may burst. Highly flammable liquid and vapor. 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
Hazardous thermal	: Solution 1	explosion. No specific data.
decomposition products	Solution 2	Decomposition products may include the following
		materials:
		carbon dioxide
		carbon monoxide
		sulfur oxides metal oxide/oxides
	Solution 3	Decomposition products may include the following
		materials:
		carbon dioxide
		carbon monoxide
		nitrogen oxides
		sulfur oxides
	Weeh Buffer	metal oxide/oxides
	Wash Buffer	Decomposition products may include the following materials:
		halogenated compounds
		metal oxide/oxides
	Nuclease Removal Buffer	Decomposition products may include the following
		materials:
		carbon dioxide
		carbon monoxide
		nitrogen oxides sulfur oxides

Section 5. Fire-fighting measures

		metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Solution 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Solution 2	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.
	Solution 3	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.
	Wash 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.
	Nuclease Removal 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Solution 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Solution 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Solution 3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Wash Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Nuclease Removal Buffer	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 en	nergency procedures
For non-emergency personnel	: Solution 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	Solution 2	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

Section 6. Accidental release measures

		touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Solution 3	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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Wash Buffer	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.
	Nuclease Removal Buffer	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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: Solution 1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Solution 2	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".
	Solution 3	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".
	Wash 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".
	Nuclease Removal 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".
6.2 Environmental precautions	: Solution 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)
	Solution 2	waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

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	Solution 3	caused environmental pollution (sewers, waterways, soil or air). 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). Water polluting material. May be harmful to the environment if released in large quantities.
	Wash 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,
	Nuclease Removal Buffer	waterways, soil or air). 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 f	or containment and cleaning up	
Methods for cleaning up	: Solution 1	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.
	Solution 2	Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
	Solution 3	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.
	Wash Buffer	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.
	Nuclease Removal Buffer	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.

Section 7. Handling and storage

7.1 Precautions for safe h	andling	
Protective measures	: Solution 1	Put on appropriate personal protective equipment
	Solution 2 Solution 3	 (see Section 8). Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in
	Week Duffer	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.
	Wash Buffer	Put on appropriate personal protective equipment (see Section 8).
	Nuclease Removal Buffer	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Solution 1 Solution 2	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. 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
	Solution 3	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

Section 7. Handling and storage

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	Wash Buffer	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
	Solution 3	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. 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
7.2 Conditions for safe storage, including any incompatibilities	: Solution 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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. Separate from acids. Keep container tightly closed and sealed until ready
	Nuclease Removal Buffer	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.
	Wash Buffer	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. 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

	Nuclease Removal Buffer	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. 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. Store locked up. 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.
7.3 Specific end use(s)		
Recommendations	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Not available. Not available. Not available. Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Solution 2	
Sodium dodecyl sulphate	None.
Sodium hydroxide	ACGIH TLV (United States, 1/2021).
	C: 2 mg/m ³
	OSHA PEL 1989 (United States, 3/1989).
	CEIL: 2 mg/m ³
	NIOSH REL (United States, 10/2020).
	CEIL: 2 mg/m ³
	OSHA PEL (United States, 5/2018).
	TWA: 2 mg/m³ 8 hours.
Solution 3	
Guanidinium thiocyanate	None.
Acetic acid	ACGIH TLV (United States, 1/2021).
	TWA: 10 ppm 8 hours.
	TWA: 25 mg/m ³ 8 hours.
	STEL: 15 ppm 15 minutes.
	STEL: 37 mg/m ³ 15 minutes.

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Section 8. Exposure controls/personal protection

	OSHA PEL 1989 (United States, 3/1989). TWA: 10 ppm 8 hours. TWA: 25 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 10 ppm 10 hours. TWA: 25 mg/m ³ 10 hours. STEL: 15 ppm 15 minutes. STEL: 37 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 10 ppm 8 hours. TWA: 25 mg/m ³ 8 hours.
Wash Buffer Sodium chloride	None.
Nuclease Removal Buffer Propan-2-ol	ACGIH TLV (United States, 1/2021). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2020). TWA: 400 ppm 10 hours. STEL: 500 ppm 15 minutes. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes. STEL: 1225 mg/m ³ 15 minutes. STEL: 1225 mg/m ³ 15 minutes. TWA: 400 ppm 8 hours. TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours.
Guanidinium thiocyanate Acetic acid	None. ACGIH TLV (United States, 1/2021). TWA: 10 ppm 8 hours. TWA: 25 mg/m ³ 8 hours. STEL: 15 ppm 15 minutes. STEL: 37 mg/m ³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 10 ppm 8 hours. TWA: 25 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 10 ppm 10 hours. TWA: 25 mg/m ³ 10 hours. STEL: 15 ppm 15 minutes. STEL: 37 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 10 ppm 8 hours. TWA: 25 mg/m ³ 8 hours.

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

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 measur	<u>es</u>	
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Liquid. Liquid. Liquid. Liquid. Liquid.
Color	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Not available. Not available. Not available. Not available. Not available.
Odor	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Not available. Not available. Not available. Not available. Not available.

Section 9. Physical and chemical properties and safety characteristics

000001 0.1 Hysice	41 (PICE		und Sui	Cly C		CHISTICS	
Odor threshold	-	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal B	uffer	Not available. Not available. Not available. Not available. Not available.					
рН	-	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal B	Solution 2 Solution 3			7.5 >12 4.4 7.5 4.4			
Melting point/freezing point	:	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal B	0°C (32°F) 0°C (32°F) Not available. 0°C (32°F) Not available.						
Boiling point, initial boiling point, and boiling range	-	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal B	100°C (212°F) 100°C (212°F) Not available. 100°C (212°F) Not available.						
Flash point	:	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal B	Solution 2Not avaiSolution 3Not avaiWash BufferNot avai			23°C (5	3.6 to 73.4	°F)	
				Closed c	up	p Open cup			
		Ingredient name	°C	°F	Method	°C	°F	Method	
		Solution 1							
		Edetic acid	>100	>212	DIN 51758				
		Solution 3							
		Acetic acid	39	102.2					
		Wash Buffer							
		Edetic acid	>100	>212	DIN 51758				
Evaporation rate	:	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal B	uffer	Not Not Not	available. available. available. available. available.				
Flammability	:	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal B	uffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.					
Lower and upper explosion limit/flammability limit	:	Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal B	Not available. Not available. Not available. Not available. Not available.						

Section 9. Physical and chemical properties and safety characteristics

Vapor pressure

Solution 1 Solution 2 Solution 3 Vash Buffer Juclease Removal B	uffer	Not Not Not	t available. t available. t available. t available. t available. t available.			
	Vapo	or Press	ure at 20°C	Vap	or pressi	ure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Solution 1						
Water	23.8	3.2				
2-Amino-2- (hydroxymethyl)propane- 1,3-diol hydrochloride	0	0		0.000007501	0.000001	
Solution 2						
Water	23.8	3.2				
Sodium dodecyl sulphate	≤0.0013501	≤0.00018				
Solution 3						
Water	23.8	3.2				
Acetic acid	15.59	2.1				
Wash Buffer						
Water	23.8	3.2				
2-Amino-2- hydroxymethyl)propane- 1,3-diol hydrochloride	0	0		0.000007501	0.000001	
Nuclease Removal Buffer						
Propan-2-ol	33	4.4		177	23.6	
Water	23.8	3.2				
Solution 1 Solution 2 Solution 3 Vash Buffer Juclease Removal B Solution 1	uffer	Not Not Not Not	t available. t available. t available. t available. t available. t available.			
Solution 2 Solution 3 Wash Buffer Nuclease Removal B	uffer	No No	t available. t available. t available. t available.			
Solution 2			Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water			
Solution 3		Sol	d hot water. uble in the foll water.	owing mate	erials: colo	d water and
Vash Buffer		Eas	sily soluble in t hot water.	he followin	g materia	ls: cold wat
		_				

Nuclease Removal Buffer Easily soluble in the following materials: cold water and hot water.

Relative vapor density

Relative density

Solubility

Section 9. Physical and chemical properties and safety characteristics

Partition coefficient: n- octanol/water	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.				
Auto-ignition temperature	 Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer 	Not av Not av Not av Not av	ailable. ailable. ailable. ailable. ailable.			
	Ingredient name	°C	°F	Method		
	Solution 1					
	Edetic acid	>400	>752	VDI 2263		
	Solution 2					
	Sodium dodecyl sulphate	310.5	590.9	VDI 2263		
	Solution 3					
	potassium acetate	>410	>770	EU A.16		
	Acetic acid	463	865.4			
	Wash Buffer					
	Edetic acid	>400	>752	VDI 2263		
	Nuclease Removal Buffer					
	potassium acetate	>410	>770	EU A.16		
	Propan-2-ol	456	852.8			
Decomposition temperature	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Not av Not av Not av	ailable. ailable. ailable. ailable. ailable. ailable.			
Viscosity	Not available. Not available. Not available. Not available. Not available.					
Particle characteristics						
Median particle size	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	Not ap Not ap Not ap	plicable. plicable. plicable. plicable. plicable. plicable.			
Section 10. Stabilit	y and reactivity					
10.1 Reactivity	: Solution 1	•	ecific test data product or its	related to reactivity available ingredients.		
	Solution 2	No specific test data related to reactivity available for this product or its ingredients.				
	Solution 3					

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available

Wash Buffer

Section 10. Stability and reactivity

		for this product or its ingredients.
	Nuclease Removal Buffer	No specific test data related to reactivity available
		for this product or its ingredients.
10.2 Chomical stability	: Solution 1	The product is stable.
10.2 Chemical stability	Solution 2	The product is stable.
	Solution 3	The product is stable.
	Wash Buffer	The product is stable.
	Nuclease Removal Buffer	
	Nuclease Removal Buller	The product is stable.
10.3 Possibility of	: Solution 1	Under normal conditions of storage and use,
hazardous reactions		hazardous reactions will not occur.
	Solution 2	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	Solution 3	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	Wash Buffer	Under normal conditions of storage and use,
		hazardous reactions will not occur.
	Nuclease Removal Buffer	Under normal conditions of storage and use,
		hazardous reactions will not occur.
10.4 Conditions to avoid	: Solution 1	No specific data
10.4 Conditions to avoid		No specific data.
	Solution 2	No specific data.
	Solution 3	No specific data.
	Wash Buffer	No specific data.
	Nuclease Removal Buffer	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.
10.5 Incompatible materials	: Solution 1	May react or be incompatible with oxidizing
		materials.
	Solution 2	Reactive or incompatible with the following
		materials:
		acids
	Solution 3	May react or be incompatible with oxidizing
		materials.
	Wash Buffer	May react or be incompatible with oxidizing
		materials.
	Nuclease Removal Buffer	Reactive or incompatible with the following
		materials:
		oxidizing materials
10.6 Hazardous	: Solution 1	Under normal conditions of storage and use,
decomposition products		hazardous decomposition products should not be
accomposition products		produced.
	Solution 2	Under normal conditions of storage and use,
	501010112	hazardous decomposition products should not be
		produced.
	Solution 3	Under normal conditions of storage and use,
		hazardous decomposition products should not be
		· ·
	Wash Buffer	produced.
		Under normal conditions of storage and use,
		hazardous decomposition products should not be
	Nuclease Devel Duffer	produced.
	Nuclease Removal Buffer	Under normal conditions of storage and use,
		hazardous decomposition products should not be
		produced.

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solution 2				
Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
Solution 3				
Acetic acid	LC50 Inhalation Vapor	Rat	11000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-
Wash Buffer				
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Nuclease Removal Buffer				
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
-	LD50 Oral	Rat	5000 mg/kg	-
Acetic acid	LC50 Inhalation Vapor	Rat	11000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Solution 2					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
				mg	
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
				mg	
Sodium hydroxide	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
				ug	
	Eyes - Severe irritant	Rabbit	-	1 %	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1	-
				mg	
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				mg	
Solution 3					
Acetic acid	Skin - Severe irritant	Rabbit	-	525 mg	-
Wash Buffer					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	-			mg	
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Nuclease Removal Buffer					
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	

StrataPrep Plasmid Miniprep Kit, Part Nu	mber 400763							
Section 11. Toxicol	ogical	inform	natio	n				
Acetic acid	Eyes - Mo Skin - Milo	derate irrita	ant	Rabbit Rabbit Rabbit			10 mg 500 mg 525 mg	-
<u>Sensitization</u> Not available.								
Carcinogenicity	: Not avail : Not avail							
Product/ingredient name	OSHA	IARC	NTP					
Nuclease Removal Buffer Propan-2-ol	-	3	-					
Teratogenicity	: Not avail : Not avail (single ex	able.						
Name				Category		Route o		Target organs
Solution 2 Sodium dodecyl sulphate Sodium hydroxide			Category 3 Category 3		-		Respiratory tract irritation Respiratory tract irritation	
Nuclease Removal Buffer Propan-2-ol				Category 3		-		Narcotic effects
Specific target organ toxicity Mot available. Aspiration hazard Not available.	(repeated	<u>exposure</u>)	l					
outes of exposure	: Solution Solution Solution Wash Bu Nuclease	2 3	Buffer	Rou Inha Rou Inha Not Rou	lation tes of lation availa	entry an entry an ble. entry an	ticipated: C	Dral, Dermal, Dral, Dermal, Dral, Dermal,
<u>otential acute health effects</u> Eye contact	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer			No known significant effects or critical hazards Causes serious eye damage. Causes serious eye damage. No known significant effects or critical hazards Causes serious eye damage.				

nhalation	: Solution 1	No known significant effects or critical hazards.
	Solution 2	Corrosive to the respiratory system.
	Solution 3	Harmful if inhaled. Corrosive to the respiratory system.
	Wash Buffer	No known significant effects or critical hazards.
	Nuclease Removal Buffer	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Corrosive to the respiratory system.
skin contact	: Solution 1 Solution 2	No known significant effects or critical hazards. Causes severe burns.
	Solution 3	Causes severe burns. Harmful in contact with skin.
	Wash Buffer	No known significant effects or critical hazards.
	Nuclease Removal Buffer	Causes severe burns.
ngestion	: Solution 1	No known significant effects or critical hazards.
-	Solution 2	May cause burns to mouth, throat and stomach. Corrosive to the digestive tract. Causes burns.
	Solution 3	May cause burns to mouth, throat and stomach. Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
	Wash Buffer	No known significant effects or critical hazards.
	Nuclease Removal Buffer	May cause burns to mouth, throat and stomach. Harmful if swallowed. Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Solution 1	No specific data.
	Solution 2	Adverse symptoms may include the following:
		pain
		watering
		redness
	Solution 3	Adverse symptoms may include the following:
		pain
		watering redness
	Wash Buffer	No specific data.
	Nuclease Removal Buffer	Adverse symptoms may include the following:
	Nuclease Nemoval Buller	pain
		watering
		redness
Inhalation	: Solution 1	No specific data.
	Solution 2	Adverse symptoms may include the following:
		respiratory tract irritation
		coughing
	Solution 3	Adverse symptoms may include the following:
		respiratory tract irritation
	Mach Duffer	coughing
	Wash Buffer Nuclease Removal Buffer	No specific data.
	Nuclease Removal Buller	Adverse symptoms may include the following: respiratory tract irritation
		coughing
		nausea or vomiting
		headache
		drowsiness/fatigue
		dizziness/vertigo
		unconsciousness

Skin contact	: Solution 1	No specific data.
	Solution 2	Adverse symptoms may include the following: pain or irritation
		redness
		blistering may occur
	Solution 3	Adverse symptoms may include the following:
		pain or irritation
		redness
		blistering may occur
	Wash Buffer	No specific data.
	Nuclease Removal Buffer	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Solution 1	No specific data.
ingeotion	Solution 2	Adverse symptoms may include the following: stomach pains
	Solution 3	Adverse symptoms may include the following: stomach pains
	Wash Buffer	No specific data.
	Nuclease Removal Buffer	Adverse symptoms may include the following: stomach pains

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 eff	<u>ects</u>	
General	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: Solution 1 Solution 2 Solution 3 Wash Buffer Nuclease Removal Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

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Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Solution 2					
Solution 2	128800	N/A	N/A	N/A	150
Sodium dodecyl sulphate	1288	N/A	N/A	N/A	1.5
Solution 3					
Solution 3	995.1	1857	N/A	95.7	3.2
Guanidinium thiocyanate	500	1100	N/A	N/A	1.5
Acetic acid	3310	1060	N/A	11	N/A
Wash Buffer					
Wash Buffer	258620.7	N/A	N/A	N/A	N/A
Sodium chloride	3000	N/A	N/A	N/A	N/A
Nuclease Removal Buffer					
Nuclease Removal Buffer	1662.9	3720.4	N/A	191.3	6.4
Propan-2-ol	5000	12800	N/A	72.2	N/A
Guanidinium thiocyanate	500	1100	N/A	N/A	1.5
Acetic acid	3310	1060	N/A	11	N/A

Other information

Solution 1	Not available.
Solution 2	Not available.
Solution 3	Not available.
Wash Buffer	Not available.
Nuclease Removal Buffer	Not available.

Section 12. Ecological information

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12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Solution 2			
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 μg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days
Sodium hydroxide	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
Solution 3			
Acetic acid	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 75000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
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Wash Buffer			
Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
Nuclease Removal Buffer			
Propan-2-ol	Acute EC50 7550 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Acetic acid	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 75000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Solution 2 Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	95 % - Rea	dily - 28 days	20 mg/l		Activated sludge
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Solution 2 Sodium dodecyl sulphate Sodium hydroxide Solution 3 Guanidinium thiocyanate Acetic acid			- - -		Readily Readily Inheren Readily	t
Nuclease Removal Buffer Propan-2-ol Guanidinium thiocyanate Acetic acid	- - -		- - -		Readily Inheren Readily	t

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential		
Solution 2 Sodium dodecyl sulphate	-2.03	-	low		
Solution 3 Acetic acid	-0.17	3.16	low		
Nuclease Removal Buffer Propan-2-ol Acetic acid	0.05 -0.17	- 3.16	low low		

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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

Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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.

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ATA
UN number	UN3316	UN3316	UN3316	UN3316	UN3316
UN proper shipping name	Chemical kit	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
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Section 14. Transport information

Section 14. Transport information

Section 14. Transport information								
Transport hazard class(es)	9	9	9	9	9			
Packing group	W	II	W	W	W			
Environmental hazards	No.	No.	No.	No.	No.			
Additional inform	ation		•	•				
TDG Classificatio	n	Quantity limitation Special provision Product classified a Goods Regulations	<u>n</u> Passenger aircraft <u>s</u> 15 as per the following s s: 2.43-2.45 (Class 9) ng Road or Rail Ind).				
Mexico Classifica	tion	: Special provision	Special provisions 251, 340					
IMDG		 <u>Emergency schedules</u> F-A, _S-P_ <u>Special provisions</u> 251, 340 						
ΙΑΤΑ		 <u>Quantity limitation</u> Passenger and Cargo Aircraft: 10 kg. Packaging instruct Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Aircraft: 1 kg. Packaging instructions: Y960. <u>Special provisions</u> A44, A163 						
Special precautio	ns for user	upright and secure	Transport within user's premises: always transport in closed containers that a upright and secure. Ensure that persons transporting the product know what to cevent of an accident or spillage.					
Transport in bulk according : Not available.								

to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations	 TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 311: Acetic acid; Sodium hydroxide; Edetic acid; Hydrochlo acid 	oric
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: 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) <u>SARA 302/304</u>	: Not listed	

Section 15. Regulatory information

Composition/information on ingredients

					SARA 302	TPQ	SARA 30	4 RQ
Name			%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Solution 3 Hydrochloric acid			≤0.1	Yes.	500	-	5000	-
Nuclease Removal Buffer Hydrochloric acid			≤0.1	Yes.	500	-	5000	_
SARA 304 RQ	:	138888888888	8890 lbs / 630)55555	5555556 kg			
<u>ARA 311/312</u>								
Classification	:	Solution 1 Solution 2			SERIOUS EYE HNOC - Corros	SION - Category DAMAGE - Cat sive to digestive sive to respirator	egory 1 tract	
		Solution 3			ACUTE TOXIC ACUTE TOXIC ACUTE TOXIC SKIN CORROS SERIOUS EYE HNOC - Corros HNOC - Corros	ITY (oral) - Cate ITY (dermal) - C ITY (inhalation) SION - Category DAMAGE - Cat sive to digestive sive to respirator	egory 4 ategory 4 - Category 4 1C egory 1 tract	
		Wash Buffer Nuclease Removal	Buffer		ACUTE TOXIC SKIN CORROS SERIOUS EYE SPECIFIC TAF (Narcotic effect HNOC - Corros	LIQUIDS - Categ ITY (oral) - Cate SION - Category DAMAGE - Cat	gory 4 1C ægory 1 OXICITY (SIN tract	GLE EXPOSUR

Composition/information on ingredients

Name	%	Classification
Solution 2		
Sodium dodecyl sulphate	≤3	FLAMMABLE SOLIDS - Category 2 COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
Sodium hydroxide	<1	SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tra irritation) - Category 3 CORROSIVE TO METALS - Category 1 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tra irritation) - Category 3 HNOC - Corrosive to digestive tract [severe]
Solution 3		
Guanidinium thiocyanate	≥25 - ≤50	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract
Acetic acid	≥10 - ≤21	HNOC - Corrosive to respiratory tract FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract [severe]
potassium acetate	≤10	COMBUSTIBLE DUSTS
te of issue : 11/26/202	21	32/

Section 15. Regulatory information

fection 15. Regulato	ory informa	ation
Wash Buffer Sodium chloride	≤3	EYE IRRITATION - Category 2A
Nuclease Removal Buffer		
Propan-2-ol	≥50 - ≤75	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
Guanidinium thiocyanate	≥10 - <25	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract
Acetic acid	≤10	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract [severe]
potassium acetate	≤5	COMBUSTIBLE DUSTŠ

State regulations

Massachusetts	: The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL; ACETIC ACID; ACETIC ACID GLACIAL
New York	: The following components are listed: Acetic acid
New Jersey	 The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL; ISOPROPANOL; ACETIC ACID; ETHANOIC ACID
Pennsylvania	: The following components are listed: 2-PROPANOL; ACETIC ACID; ACETIC ACID, WATER SOLUTIONS

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	All components are listed or exempted.
China	All components are listed or exempted.
Europe	All components are listed or exempted.
Japan	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	All components are listed or exempted.

Section 15. Regulatory information

Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Solution 2	
SKIN CORROSION - Category 1	On basis of test data
SERIOUS EYE DAMAGE - Category 1	On basis of test data
Solution 3	
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION - Category 1C	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method
Nuclease Removal Buffer	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN CORROSION - Category 1C	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method

History

Date of issue	: 11/26/2021
Date of previous issue	: 06/21/2019
Version	: 7
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 = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available

UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

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