

Issuing Date: 2017-01-13 Revision Date: 2017-01-13 Version: 1

SECTION 1. Identification

Product identifier

56383
SimpleChIP® Plus Sonication Chromatin IP Kit Glycine Solution (10X)
ChIP Sonication Nuclear Lysis Buffer ChIP Sonication Cell Lysis Buffer (2X)
ChIP Butfer (10X)
ChIP Elution Buffer (2X)
ChIP Elution Buffer (2X)
ChIP Corade Protein G Magnetic Beads
DNA Binding Buffer

DNA Binding Buffer
Protease Inhibitor Cocktall (200X)
RNAse A (10 mg/ml)
Proteinase K (20 mg/ml)
Histone H3 (02B12) XP® Rabbit mAb (ChIP Formulated)
Normal Rabbit IgG
5 M NaCI

5 M NaCl DNA Wash Buffer DNA Elution Buffer SimpleChIP9 Human RPL30 Exon 3 Primers SimpleChIP9 Mouse RPL30 Intron 2 Primers DNA Purification Columns and Collection Tu

UN number

Recommended use of the chemical and restrictions on use

Identified uses Uses advised against

This product is intended for research purposes only. This product is not intended for use in diagnostic procedures or therapeutics. This product is not intended for use in humans or animals.

Manufacturer address

Cell Signaling Technology, Inc. 3 Trask Lane Danvers, MA 01923 United States TEL: +1 978 867 2300 FAX: +1 978 867 2400 signal.com

Website Email address Emergency telephone number

support@cellsignal.com In case of emergency call CHEMTREC 1-800-424-9300

SECTION 2. Hazard(s) identification

Kit Component Name

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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glycine	56-40-6	5-10	Yes
Kit Component Name	ChIP Sonication Nuclear L	ysis Buffer	
Chemical Name	CAS No	Weight %	Hazardous
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phen ylether	9002-93-1	1-<3	Yes

Kit Component Name	ChIP Sonication Cell Lysis	s Buffer (2X)	
Chemical Name	CAS No	Weight %	Hazardous
polyethylene glycol	9002-93-1	1-<3	Yes
p-(1,1,3,3-tetramethylbutyl)phen vlether			

Kit Component Name	ChIP Buffer (10X)		
Chemical Name	CAS No	Weight %	Hazardous
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phen ylether	9002-93-1	5-10	Yes
trometamol	77-86-1	3-7	Yes
glycine, N,N'-1,2-ethanediylbis[N-(carbo xymethyl)-, sodium salt, hydrate (1:2:2)	6381-92-6	1-5	Yes
sodium 3-alpha,12-alphadihydroxy-5bet a-cholan-24-oate	302-95-4	0.1-1	Yes
sodium dodecyl sulphate	151-21-3	0.1-1	Yes
hudrophlorio poid	7647.04.0	0.1.1	Vec

Kit Component Name	ChIP Elution Buffer (2X)		
Chemical Name	CAS No	Weight %	Hazardous
sodium dodecyl sulphate	151-21-3	1-5	Yes
trometamol	77-86-1	1-5	Yes
hydrochloric acid	7647-01-0	0.1-1	Yes

Kit Component Name	ChIP - Grade Protein G M	agnetic Beads	
Chemical Name	CAS No	Weight %	Hazardous
sodium azide	26628-22-8	<=0.1	Yes

Kit Component Name	DNA Binding Buffer		
Chemical Name	CAS No	Weight %	Hazardous
propan-2-ol	67-63-0	30-60	Yes
guanidinium chloride	50-01-1	30-60	Yes

Kit Component Name		Protease Inhibitor Cocktai	I (200X)	
	Chemical Name	CAS No	Weight %	Hazardous
	dimethyl sulfoxide	67-68-5	60-100	Yes
	benzenesulfonyl fluoride,	30827-99-7	1-5	Yes
	4-(2-aminoethyl)-, hydrochloride			
	(1:1)			

Chemical Name	CAS No	Weight %	Hazardous
glycerol	56-81-5	30-60	Yes
trometamol	77-86-1	10-15	Yes
Kit Component Name	Proteinase K (20 mg/ml)		
Chemical Name	CAS No	Weight %	Hazardous
glycerol	56-81-5	30-60	Yes

RNAse A (10 mg/ml)

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Classification and label elements described below are inclusive of all hazards of the combined kit. The most severe classifications are listed for each endpoint. Refer to individual kit component SDS for classification and label elements for each component present in the kit.

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Specific target organ toxicity - single exposure (STOT SE)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements



Signal Word

Hazard statement(s)
Highly flammable liquid and vapor.
Hamful fi swillowed. Causes skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation.

Precautionary Statement(s)
Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Audo breathing dust/flume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container rightly closed. Ground/fillond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.? /equipment. Use only non-sparking tools. Take precautionary measures against

explosion-proof electrical/ventilating/lighting/.? /equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep cool.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing, Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention,

IF IN EYES: Rinse caudiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

In case of fire: Use CO2, day chemical, or foam for extinction.

Store in a well-ventilated place. Keep container lightly closed. Store locked up.

Dispose of contents/container to an approved waste disposal plant.

Supplementary Hazard Information

No information available.

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Acute Toxicity 15.269% of the mixture consists of ingredient(s) of unknown acute toxicity

SECTION 3. Composition/information on ingredients	

Kit Component Name	Glycine Solution (10X)		
Chemical Name	CAS No	Weight %	Hazardous

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Proteinase, I ritirachium album serine	39450-01-6	1-5	Yes
Kit Component Name	Histone H3 (D2B12) XP®	Rabbit mAb (ChIP Formulated)	

Normal Rabbit IgG		
CAS No	Weight %	Hazardous
56-81-5	30-60	Yes
75277-39-3	0.1-1	Yes
	CAS No 56-81-5	CAS No Weight % 56-81-5 30-60

Kit Component Name

5M NaCl DNA Wash Buffer DNA Elution Buffer SimpleChIP® Human RPL30 Exon 3 Primers SimpleChIP® Mouse RPL30 Intron 2 Primers DNA Purification Columns and Collection Tubes

ntrations requiring disclosure under 29 CFR 1910.1200 (OSHA Hazard

SECTION 4. First-aid measures		
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.	
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur. If skin irritation or rash occurs: Get medical advice/attention.	
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. Administer oxygen if breathing is difficult and you are trained. If breathing has stopped, contact emergency medical services immediately.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Get medical attention immediately if symptoms occur.	

Most important symptoms and effects, both acute and delayed

Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms:

Corrosive to the eyes and may cause irreversible eye damage. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Advice for emergency responders

Use first aid treatment according to the nature of the injury. When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. General advice

Protection of first-aiders

SECTION 5. Fire-fighting measures

Extinguishing media

surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient. Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical.

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breather.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Use persona protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Other information No information available.

See Section 12 for additional information.

Methods and material for containment and cleaning up

Methods for containment Methods for cleaning up

Prevent further leakage or spillage if safe to do so. Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Prevent product from entering drains.

SECTION 7. Handling and storage

Precautions for safe handling

Use according to package label instructions. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

conditions
Packaging material
Incompatible products

No information available. Strong acids. Strong bases. Oxidizing agents.

SECTION 8. Exposure controls/personal protection

Control parameters

Г	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
	glycerol	-	TWA mist, total particulate: 15	-

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Remarks	@ 20 °C
Kit Component Physical state Appearance Color pH VALUE Remarks	ChIP Elution Buffer (2X) Liquid Translucent Clear 7.5 @ 20 °C

Kit Component Physical state ChIP-Grade Protein G Magnetic Beads Liquid

Appearance Color

Suspension Clear White to off-white with white suspended solids

Kit Component Physical state Appearance Color Odor pH VALUE Remarks DNA Binding Buffer DNA Bindir Liquid Colorless Clear Characteris 7.0 @ 20 °C >=21 Flash point (°C) VALUE
Autoignition temp (°C) VALUE
Upper flammability limit
Lower flammability limit 425 12% 2%

Kit Component Protease Inhibitor Cocktail (200X)

Physical state Appearance Color Odor Liquid Translucent Clear Colorle Sulphurous 7.0 PH VALUE
Remarks
Flash point (°C) VALUE
Method @ 20 °C

8/ Closed cup (based on components) 42% 3.5%

Upper flammability limit Lower flammability limit

Kit Component Physical state Appearance Color RNAse A (10 mg/ml) Liquid Transparent Clear Colorless pH VALUE Remarks @ 20 °C

Kit Component Physical state Proteinase K (20 mg/ml) Liquid Clear Colorless Physical stat Appearance Color

Histone H3 (D2B12) XP® Rabbit mAb (ChIP Formulated) Normal Rabbit IgG Liquid Clear Colorless 7.4 @ 20 °C Kit Componen

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Physical state Appearance Color pH VALUE Remarks 5 M NaCl Kit Component Physical state Appearance Color Liquid Translucent Clear Colorless 56383 - SimpleChIP® Plus Sonication Chromatin IP Ki

		mg/m³ TWA mist, respirable fraction: 5 mg/m³	
propan-2-ol	STEL 400 ppm TWA: 200 ppm	TWA : 400 ppm TWA : 980 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
hydrochloric acid	Ceiling: 2 ppm	Ceiling: 5 ppm Ceiling: 7 mg/m ³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³
sodium azide	Ceiling: 0.29 mg/m ³ Ceiling: 0.11 ppm	-	Ceiling: 0.1 ppm Ceiling: 0.3 mg/m ³

Appropriate engineering controls

ers, eyewash stations, and ventilation systems

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Tightly fitting safety goggles. If splashes are likely to occur, wear.. Face-shield. Wear protective gloves/clothing. If exposure limits are exceeded or imitation is experienced. NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high abforme containmant concentrations. Respiratory protection must be provided in accordance with current local regulations. Eye/face protection Skin and body protection Respiratory protection

Hygiene measures

SECTION 9. Physical and chemical properties

Information on the known physical chemical properties of each component within Kit are given below. If not included, information is either not available or not applicable. Refer to individual kit component SDS for further information.

Information on basic physical and chemical properties

Glycine Solution (10X) Liquid Transparent Clear Colorless Kit Component Physical state Appearance Color pH VALUE Remarks 6.58 @ 20 °C

ChIP Sonication Nuclear Lysis Buffer

Kit Component Physical state Appearance Color pH VALUE Liquid Transparent Colorless 8.0

Kit Component Physical state ChIP Sonication Cell Lysis Buffer (2X)

Liquid Color pH VALUE Colorless 8.5

Kit Component Physical state Appearance Color ChIP Buffer (10X) Liquid Translucent Clear

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pH VALUE Remarks @ 20 °C Kit Component Physical state pH VALUE Liquid 7.7 Kit Component DNA Elution Buffer Physical state pH VALUE Density Liquid 8.5 1 g/cm3 Kit Component SimpleChIP® Human RPL30 Exon 3 Primers Physical state Appearance Color Liquid Clear Colorless Kit Component Physical state Appearance Color SimpleChIP® Mouse RPL30 Intron 2 Primers Liquid Clear Colorless

SECTION 10. Stability and reactivity

Reactivity

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions Hazardous polymerization None under normal processing None under normal processing

Extremes of temperature and direct sunlight. Heat, flames and sparks. Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper

Strong acids, Strong bases, Oxidizing agents,

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors

SECTION 11. Toxicological information

Information on likely routes of exposure

Product Information
Refer to kit component SDS for full toxicological information. This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxocological and physiological properties of this compound is not well defined.

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Inhalation

DNA Binding Buffer
May cause drownsiness and dizziness based on components Kit Component Inhalation

Proteinase K (20 mg/ml) May cause allergy or asthma symptoms or breathing difficulties if inhaled

Eve contact

ChIP Sonication Nuclear Lysis Buffer May cause irreversible damage to eyes Expected to be an irritant based on components

ChIP Sonication Cell Lysis Buffer (2X) Expected to be an irritant based on components Kit Component Eye contact

Kit Component Eye contact ChIP Elution Buffer (2X) Expected to be an irritant based on components

DNA Binding Buffer Expected to be an irritant based on components

Protease Inhibitor Cocktail (200X) Expected to be an irritant based on components Kit Component Eye contact

Kit Component Eye contact RNAse A (10 mg/ml) Expected to be an irritant based on components

ChIP Buffer (10X) May cause irreversible damage to eyes Kit Component Eye contact

Skin contact

ChIP Buffer (10X) Expected to be an irritant based on components

Kit Component Skin contact

DNA Binding Buffer Expected to be an irritant based on components

Protease Inhibitor Cocktail (200X) Expected to be an irritant based on components

RNAse A (10 mg/ml) Expected to be an irritant based on components

Kit Component Skin contact

DNA Binding Buffer Harmful if swallowed Kit Component Ingestion

Information on toxicological effects

Kit Component ATEmix (oral) ATEmix (dermal) DNA Binding Buffer 867 mg/kg 25600 mg/kg

Component Information

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Proteinase K (20 mg/ml)
Contains a known respiratory sensitizer at low concentrations. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Kit Component Respiratory Sensitization

Mutagenic effects No information available.

No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

Chemical Name	IARC	NTP	OSHA
propan-2-ol	3	-	-
67-63-0			
Reproductive toxicity	No information available.		

Systemic Target Organ Toxicity (STOT)

Kit Component STOT - single exposu Target Organ Effects

DNA Binding Buffer May cause drowsiness or dizziness Central nervous system (CNS) Kit Component Other adverse effects

Protease Inhibitor Cocktail (200X)
May accelerate skin absorption of other materials. Special attention needed when toxic materials are present in dimethyl sulfoxide because of enhanced skin absorption.

Aspiration Hazard No information available.

SECTION 12. Ecological information

Ecotoxicity

Product Information No information available

Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus mykiss) 96 h	EC50 500 mg/L (Daphnia magna) 24 h
dimethyl sulfoxide	EC50 12350 - 25500 mg/L (Skeletonema costatum) 96 h	LC50 40 g/L (Lepomis macrochirus) 96 h LC50 33 - 37 g/L (Oncorhynchus mykiss) 96 h LC50 34000 mg/L (Pimephales promelas) 96 h LC50 41.7 g/L (Cyprinus carpio) 96 h	EC50 7000 mg/L (Daphnia species) 24 h
propan-2-ol	EC50 1000 mg/L (Desmodesmus subspicatus) 96 h EC50 1000 mg/L (Desmodesmus subspicatus) 72 h	LC50 9640 mg/L (Pimephales promelas) 96 h LC50 1400000 µg/L (Lepomis macrochirus) 96 h LC50 11130 mg/L (Pimephales promelas) 96 h	EC50 13299 mg/L (Daphnia magna) 48 h
guanidinium chloride	-	LC50 1758 mg/L (Leuciscus idus) 48 h	-
trometamol	-	-	NOEC >100 mg/L (Selenastrum capricornutum) 96 h
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her	=	LC50 8.9 mg/l (Pimephales promelas) 96 h	EC50 26 mg/l (Daphnia) 48 h
sodium dodecyl sulphate	ECS0 53 mg/L (Desmodesmus subspicatus) 72 h ECS0 3.59 - 15.6 mg/L (Pseudokirchneriella subcapitata) 96 h ECS0 117 mg/L (Pseudokirchneriella subcapitata) 96 h ECS0 30 - 100 mg/L (Desmodesmus subspicatus) 96 h		EC50 1.8 mg/L (Daphnia magna) 48 h

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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m ³ (Rat) 1 h
dimethyl sulfoxide	14500 mg/kg (Rat)	40000 mg/kg (Rat)	-
propan-2-ol	5000 mg/kg (Rat)	12800 mg/kg (Rabbit)	16000 ppm (Rat) 8h
guanidinium chloride	475 mg/kg (Rat)	-	
trometamol	5900 mg/kg (Rat)	-	-
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her	= 1800 mg/kg (Rat)	= 8000 mg/kg (Rabbit)	=
glycine	9550 mg/kg (Rat)	-	-
sodium dodecyl sulphate	= 1288 mg/kg (Rat)	= 580 mg/kg (Rabbit)	> 3900 mg/m3 (Rat) 1 h
glycine, N,N'-1,2-ethanediylbis[N-(carboxym ethyl)-, sodium salt, hydrate (1:2:2)	2800 mg/kg (Rat)	-	-
benzenesulfonyl fluoride, 4-(2-aminoethyl)-, hydrochloride (1:1)	2834 mg/kg (mouse)	-	-
sodium 3-alpha,12-alphadihydroxy-5beta-ch olan-24-oate	1370 mg/kg (Rat)	-	-
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms: Symptoms

Corrosive to the eyes and may cause irreversible eye damage. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Symptoms of altergic reaction may include rash, liching, swelling, trouble breathing, tingling of the hands and feel, dizzlense, lightheadedness, chest pain, muscle pain, or flushing.

Skin and Eye Corrosion/Irritation

Kit Component ChIP Buffer (10X)
Skin corrosion/irritation Causes skin irritation
Serious eye damage/eye irritation Risk of serious damage nage to eves Kit Component ChIP Elution Buffer (2X) Serious eye damage/eye irritation Causes serious eye irritat Kit Component DNA Binding Buffer kin corrosion/irritation Serious eye damage/eye irritation Causes serious eye irritation Kit Component Protease Inhibitor Cocktail (200X)
Skin corrosion/irritation Causes skin irritation
Serious eye damage/eye irritation Causes serious eye irritation Kit Component RNAse A (10 mg/ml)
Skin corrosion/irritation Causes skin irritation
Serious eye damage/eye irritation Causes serious eye irritation

Kit Component ChIP Sonication Nuclear Lysis Buffer Serious eye damage/eye irritation Causes serious eye irritation

Kit Component ChIP Sonication Cell Lysis Buffer (2X) Serious eye damage/eye irritation Causes serious eye irritation

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		mykiss) 96 h LC50 7.97 mg/L	
1		(Brachydanio rerio) 96 h LC50 9.9 -	
1		20.1 mg/L (Brachydanio rerio) 96 h	
1		LC50 4.06 - 5.75 mg/L (Lepomis	
		macrochirus) 96 h LC50 4.2 - 4.8	
		mg/L (Lepomis macrochirus) 96 h	
		LC50 4.5 mg/L (Lepomis	
		macrochirus) 96 h LC50 5.8 - 7.5	
		mg/L (Pimephales promelas) 96 h	
		LC50 10.2 - 22.5 mg/L (Pimephales	
		promelas) 96 h LC50 6.2 - 9.6 mg/L	
		(Pimephales promelas) 96 h LC50 13.5 - 18.3 mg/L (Poecilia reticulata)	
		96 h LC50 10.8 - 16.6 mg/L	
		(Poecilia reticulata) 96 h LC50 15 -	
		18.9 mg/L (Pimephales promelas)	
		96 h	
hydrochloric acid	-	LC50 282 mg/L (Gambusia affinis)	
		96 h	
sodium azide	EC50 0.35 mg/L	LC50 0.8 mg/L (Oncorhynchus	LC100 1 mg/L (Orconectes rusticus
1	(Pseudokirchneriella subcapitata)	mykiss) 96 h LC50 5.46 mg/L	96 h
1	96 h	(Pimephales promelas) 96 h LC50	
1		0.7 mg/L (Lepomis macrochirus) 96	

Persistence and degradability

ChIP Buffer (10X) Not readily biodegradable Kit Component Persistence and degradability Kit Component Persistence and degradability DNA Binding Buffer Readily biodegradable

Protease Inhibitor Cocktail (200X) Degrades to dimethyl sulfide. Kit Component Persistence and degradability

Kit Component Bioaccumulation DNA Binding Buffer Not likely to bioaccumulate Kit Component Protease Inhibitor Cocktail (200X) Not likely to bioaccumulate

Chemical Name	Octanol-Water Partition Coefficient
glycerol	-1.76
dimethyl sulfoxide	-2.03
propan-2-ol	0.05
guanidinium chloride	-1.7
sodium dodecvl sulphate	1.6

Mobility

Protease Inhibitor Cocktail (200X)
Will likely be mobile in the environment due to its water solubility

Other adverse effects No information available

SECTION 13. Disposal considerations

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Waste Disposal Methods

Dispose of in accordance with all applicable national environmental laws and regulations.

Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way.

SECTION 14. Transport information

This material is subject to regulation as a hazardous material for shipping:

DOT

UN number UN proper shipping name Transport hazard class(es) Packing group Special provisions Emergency response guide number UN3316 Chemical Kits 9 II 15 171

UN number UN proper shipping name Transport hazard class(es) Packing group Special provisions UN3316 Chemical Kits A163, A44

SECTION 15. Regulatory information					
North American Inventory Listing					
Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL	
glycerol	Listed	Not Listed	Listed	Not Listed	
dimethyl sulfoxide	Listed	Not Listed	Listed	Not Listed	
propan-2-ol	Listed	Not Listed	Listed	Not Listed	
guanidinium chloride	Listed	Not Listed	Listed	Not Listed	
trometamol	Listed	Not Listed	Listed	Not Listed	
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phen ylether	Listed	Not Listed	Listed	Not Listed	
glycine	Listed	Not Listed	Listed	Not Listed	
sodium dodecyl sulphate	Listed	Not Listed	Listed	Not Listed	
glycine, N,N'-1,2-ethanediylbis[N-(carbo xymethyl)-, sodium salt, hydrate (1:2:2)	Not Listed	Not Listed	Listed	Not Listed	
sodium 3-alpha,12-alphadihydroxy-5bet a-cholan-24-oate	Listed	Not Listed	Listed	Not Listed	
2-amino-2-(hydroxymethyl)prop ane-1,3-diol hydrochloride	Listed	Not Listed	Listed	Not Listed	
hydrochloric acid	Listed	Not Listed	Listed	Not Listed	
sodium 4-(2-hydroxyethyl)piperazin-1-yl ethanesulphonate	Listed	Not Listed	Not Listed	Listed	
sodium azide	Listed	Not Listed	Listed	Not Listed	

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End of Safety Data Sheet

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Refer to kit component SDS for full SARA Section 313 reporting requirements.

Chemical Name	CAS No	SARA 313 - Threshold Values %
propan-2-ol	67-63-0	1.0
hydrochloric acid	7647-01-0	1.0
hydrochloric acid	7647-01-0	1.0
sodium azide	26628-22-8	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard

Clean Water Act

Refer to kit component SDS for full Clean Water Act (CWA) reporting requirements.

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances	CWA - Bioaccumulative Chemicals of Concern (BCCs)
hydrochloric acid	5000 lb	Not Listed	Not Listed	Listed	Not Listed

Refer to kit component SDS for full Comprehensive Environmental Response Compensation and Liability Act (CERCLA) reporting requirements.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
hydrochloric acid	5000 lb	5000 lb
sodium azide	1000 lb	1000 lb

California Proposition 65

Refer to kit component SDS for full California Proposition 65 information.

U.S. State Right-to-Know Regulations

Refer to kit component SDS for applicable State Right-To-Know (RTK) information.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
glycerol	Listed	Listed	Listed
dimethyl sulfoxide	Listed	Not Listed	Not Listed
propan-2-ol	Listed	Listed	Listed
hydrochloric acid	Listed	Listed	Listed
hydrochloric acid	Listed	Listed	Listed
sodium azide	Listed	Listed	Listed

SECTION 16. Other information

Revision Date: 2017-01-13 <u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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