

Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

Issuing Date: 2018-12-03

Version: 2

SECTION 1. Identification Product identifier **Product No** 12052 **Product name** SMAD2/3 Control Cell Extracts 26725: SMAD2/3 Control Cell Extracts (HT1080 untreated) **Kit Component** 47986: SMAD2/3 Control Cell Extracts (HT1080 + hTGF-beta3) Recommended use of the chemical and restrictions on use **Identified uses** This product is intended for research purposes only. Manufacturer, importer, supplier Manufacturer address Cell Signaling Technology, Inc. 3 Trask Lane Danvers, MA 01923 **United States** TEL: +1 978 867 2300 FAX: +1 978 867 2400 Website www.cellsignal.com Email address support@cellsignal.com **Emergency telephone number** In case of emergency call CHEMTREC 1-800-424-9300

SECTION 2. Hazard(s) identification

Classification

This substance/mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label elements, including precautionary statements

Signal Word Not classified.

Hazard statement(s) None.

Precautionary Statement(s) None.

Supplementary Hazard Information Harmful to aquatic life.

Hazards not otherwise classified (HNOC)

Not applicable.

SECTION 3. Composition/information on ingredients

Kit Component

The following kit components contain the ingredients listed in the table below:

26725: SMAD2/3 Control Cell Extracts (HT1080 untreated) 47986: SMAD2/3 Control Cell Extracts (HT1080 + hTGF-beta3)

Chemical name	CAS No	Weight-%
glycerol	56-81-5	10
sodium dodecyl sulphate	151-21-3	2

SECTION 4. First-aid measures

Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Get medical attention if irritation persists.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Advice for emergency responders

General advice	For further assistance, contact your local Poison Control Center.
Protection of first-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions
	to protect themselves

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

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 protective gear.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal
	protection see section 8.
Other information	No information available.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

SECTION 7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. Refer to Section 8. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Packaging material	No information available.
Incompatible products	Strong oxidizing agents.

SECTION 8. Exposure controls/personal protection

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
glycerol	-	TWA mist, total particulate: 15	-
		mg/m ³	
		TWA mist, respirable fraction:	
		5 mg/m ³	

Appropriate engineering controls

Showers, 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.

Eye/face protection	If splashes are likely to occur, wear: Tightly fitting safety goggles.
Skin and body protection	Wear protective gloves/clothing.

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

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

Kit Component	47986: SMAD2/3 Control Cell Extracts (HT1080 + hTGF-beta3)
Physical state	Liquid
Appearance	Clear
Color	Red
Kit Component	26725: SMAD2/3 Control Cell Extracts (HT1080 untreated)
Physical state	Liquid
Appearance	Clear
Color	Blue

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

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

Conditions to Avoid

No information available.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied

SECTION 11. Toxicological information

Information on likely routes of exposure

Product 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 toxicological and physiological properties of this compound is not well defined.

Inhalation	No known hazard by inhalation.
Eye contact	Avoid contact with eyes May cause slight irritation
Skin contact	Avoid contact with skin. May cause slight irritation after prolonged contact with skin.
Ingestion	Low order of toxicity based on components. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
water	> 90000 mg/kg (Rat)	-	-
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat)1 h
sodium dodecyl sulphate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat)1 h
(R*,R*)-1,4-dimercaptobutane-2,3-di	400 mg/kg (Rat)	-	-
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Symptoms	mptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.		
Skin and Eye Corrosion/Irritation	No information available		
Sensitization	No information available		
Mutagenic effects	No information available		
Carcinogenicity	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.		
Reproductive toxicity	No information available.		
Systemic Target Organ Toxicity (STOT)	No information available		
Aspiration Hazard	No information available.		
SECTION 12. Ecological information			

Ecotoxicity

Product Information 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
sodium dodecyl sulphate	EC50 53 mg/L (Desmodesmus subspicatus) 72 h EC50 30 - 100 mg/L (Desmodesmus subspicatus) 96 h EC50 42 mg/L (Desmodesmus subspicatus) 96 h EC50 3.59 - 15.6 mg/L (Pseudokirchneriella subcapitata) 96 h EC50 117 mg/L		EC50 21.2 mg/L (Daphnia magna) 24 h EC50 1.8 mg/L (Daphnia magna) 48 h

(Pseudokirchneriella subcapitata) 96	96 h LC50 4.2 mg/L (Oncorhynchus	
h	mykiss) 96 h LC50 7.97 mg/L	
	(Brachydanio rerio) 96 h LC50 9.9 -	
	20.1 mg/L (Brachydanio rerio) 96 h	
	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 1.31 mg/L	
	(Cyprinus carpio) 96 h LC50 15 -	
	18.9 mg/L (Pimephales promelas) 96	
	h	

Persistence and degradability

No information available

Bioaccumulation

Chemical name	Octanol-Water Partition Coefficient	
glycerol	-1.76	
sodium dodecyl sulphate	1.6	

Mobility

No information available

Other adverse effects

No information available.

SECTION 13. Disposal considerations

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. Dispose of wastes in an approved waste disposal facility.

SECTION 14. Transport information

This material is not subject to regulation as a hazardous material for shipping.

SECTION 15. Regulatory information

North American Inventory Listing

Chemical name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
water	Listed	Not Listed	Listed	Not Listed
glycerol	Listed	Not Listed	Listed	Not Listed
sodium dodecyl sulphate	Listed	Not Listed	Listed	Not Listed

(R*,R*)-1,4-dimercaptobutane-2	Listed	Not Listed	Listed	Not Listed
,3-diol				

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
glycerol	Listed	Listed	Listed

SECTION 16. Other information

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Disclaimer

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.

End of Safety Data Sheet