SAFETY DATA SHEET (SDS): According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

## **SECTION 1. Identification**

Product identifier

Product number 6686

Product name MYCN\_MYC\_HUMAN 53-65 t58 AQUA Peptide

UN number UN2924

Recommended use of the chemical and restrictions on use

**Identified uses** This product is intended for research purposes only.

**Uses advised against**This product is not intended for use in diagnostic procedures or therapeutics.

This product is not intended for use in humans or animals.

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 www.cellsignal.com support@cellsignal.com

Company phone number 978-867-2300

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

## SECTION 2. Hazard(s) identification

## Classification

**Email address** 

Website

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

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Flammable liquids	Category 2

### GHS Label elements, including precautionary statements



Signal Word Danger

Hazard statement(s)

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Highly flammable liquid and vapor

Causes severe skin burns and eye damage

## **Precautionary Statement(s)**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Ground/Bond container and receiving equipment

Take precautionary measures against static discharge

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

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/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Store in a well-ventilated place. Keep cool

Dispose of contents/container to an approved waste disposal plant

### Supplementary Hazard Information

Hazards not otherwise classified (HNOC) None.

# **SECTION 3. Composition/information on ingredients**

Chemical Name	CAS No	Weight %
acetonitrile	75-05-8	10-30
trifluoroacetic acid	76-05-1	0.1-1

## **SECTION 4. First-aid measures**

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsina

Skin contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. Immediate medical attention is required. Move to fresh air in case of

accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen.

**Ingestion** Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water.

Never give anything by mouth to an unconscious person. Remove from exposure, lie down this is a test. Clean mouth with water. If swallowed, do not induce vomiting - seek medical

advice.

## Most important symptoms and effects, both acute and delayed

Symptoms of acute acetonitrile exposure include: chest pain, dizziness, weakness, tightness in the chest, nausea, vomiting, tachycardia, hypotension, short and shallow respiration, headache, restlessness and seizures.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### Advice for emergency responders

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

**Protection of first-aiders** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

# **SECTION 5. Fire-fighting measures**

### Extinguishing media

Suitable Extinguishing Media Cool containers / tanks with water spray.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

### **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 Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with

skin, eyes and clothing. Remove all sources of ignition. Heat, flames and sparks. Ensure

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adequate ventilation. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

#### Environmental precautions

Do not allow material to contaminate ground water system. Should not be released into the environment. Prevention of fire and explosion. A vapor suppressing foam may be used to reduce vapors. Try to prevent the material from entering drains or water courses. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

## 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.

Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces

with water.

## **SECTION 7. Handling and storage**

#### Precautions for safe handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. There is a hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these: they are to be disposed off safely after use. Avoid static electricity build up with connection to earth.

#### 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 No information available.

Incompatible products Incompatible with strong acids and bases. Incompatible with oxidizing agents.

## **SECTION 8. Exposure controls/personal protection**

### Control parameters

Occupational exposure limit values						
Chemical Name	Chemical Name ACGIH TLV OSHA PEL NIOSH REL					
acetonitrile	S*	TWA: 40 ppm	IDLH: 500 ppm IDLH: 25			
TWA : 20 ppm		TWA: 70 mg/m³ TWA: 5	mg/m³			
		mg/m³	TWA : 20 ppm			
		S*	TWA: 34 mg/m <sup>3</sup>			

### 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 Tightly fitting safety goggles. Face-shield.

Wear protective gloves/clothing. Skin and body protection

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

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provided in accordance with current local regulations.

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area Hygiene measures

and clothing. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective

equipment before re-use. Wear suitable gloves and eye/face protection.

## **SECTION 9. Physical and chemical properties**

## Information on basic physical and chemical properties

Liquid Physical state **Appearance** Clear

Odor Aromatic of ether, sweet

Color Colorless **Odor Threshold** ~170 ppm 1.93 @ 20 °C

Melting point/freezing point No information available Initial boiling point and boiling 81.6 °C @ 1 atm

range

Flash point 12.5 °C Closed cup **Evaporation rate** No information available Flammability (solid, gas) No information available No information available. Upper flammability limit Lower flammability limit No information available. Vapor pressure No information available Vapor density No information available Relative density No information available No information available. Solubility Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available

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Decomposition temperatureNo information available.Explosive propertiesNo information availableOxidizing propertiesNo information availableVOC contentNo information availableViscosityNo information available.DensityNo information available.

## **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**

Heat, flames and sparks. Exposure to air or moisture over prolonged periods.

#### **Incompatible Materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

#### **Hazardous Decomposition Products**

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

## **SECTION 11. Toxicological information**

### Information on likely routes of exposure

**Inhalation** Vapours may irritate throat and respiratory system.

**Eye contact** May cause irreversible damage to eyes. **Skin contact** Prolonged skin contact may cause burns.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Information on toxicological effects

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.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
acetonitrile	= 1327 mg/kg (Rat)	= 1250 mg/kg (Rabbit)	= 7500 ppm (Rat) 4 h
trifluoroacetic acid	-	-	= 10,000 mg/m³ ( Rat )

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

**Symptoms** Symptoms of acute acetonitrile exposure include: chest pain, dizziness, weakness,

tightness in the chest, nausea, vomiting, tachycardia, hypotension, short and shallow

respiration, headache, restlessness and seizures.

**Sensitization Mutagenic effects**No information available.
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.

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Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Target Organ Effects
Neurological effects
Aspiration Hazard

Central nervous system (CNS), Respiratory system, Kidney, Liver, Heart.
No information available.
No information available.

Other information Systemic effects are attributable to the conversion of acetonitrile to cyanide. Onset of

symptoms are delayed.... because the parent molecule has no apparent intrinsic toxicity, but undergoes a two-step activation reaction mediated by cytochrome P450 enzymes

(p-450IIE1).

# **SECTION 12. Ecological information**

#### **Ecotoxicity**

Product does not present an aquatic toxicity hazard based on known or supplied information.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
acetonitrile	-	LC50 1640 mg/L (Pimephales	EC50 5838 mg/L (Daphnia pulex)
		promelas) 96 h	18 h

Persistence and degradability Bioaccumulation Mobility

Product is biodegradable. Not likely to bioaccumulate. No information available

Chemical Name	Octanol-Water Partition Coefficient
acetonitrile	-0.34

### Other adverse effects

No information available.

### **SECTION 13. Disposal considerations**

## Waste Disposal Methods

Should not be released into the environment.

### **Disposal considerations**

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

## **SECTION 14. Transport information**

#### DOT

UN number UN2924

**UN proper shipping name** Flammable liquids, corrosive, n.o.s. (acetonitrile, trifluoroacetic acid)

Transport hazard class(es) 3(8)
Packing group

Special provisions IB2, T11, TP2, TP27

Emergency response guide

number

132

## IATA

UN number UN2924

**UN proper shipping name** Flammable liquids, corrosive, n.o.s. (acetonitrile, trifluoroacetic acid)

Transport hazard class(es) 3(8)
Packing group || I|
ERG code 3CH

# **SECTION 15. Regulatory information**

## **North American Inventory Listing**

Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
acetonitrile	Listed	Section 4: 1 %	Listed	Not Listed
trifluoroacetic acid	Listed	Not Listed	Listed	Not Listed

## Canadian Workplace Hazardous Materials Information System (WHMIS) Classification



Class B2 - Flammable Liquids Class E - Corrosive Material at >= 1%

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#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS No	SARA 313 - Threshold Values %
acetonitrile	75-05-8	1.0

## SARA 311/312 Hazard Categories

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

## Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

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

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
acetonitrile	5000 lb	Not Listed

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#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product contains the following U.S. State Right to Know chemicals:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
acetonitrile	Listed	Listed	Listed
trifluoroacetic acid	Listed	Not Listed	Not Listed

#### U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

## US Commerce Department - Export Administration Regulations Information

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

### U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

## **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**