

Safety Data Sheet (SDS) According to the REACH Regulation (EC) No. 1907/2006

Issuing Date: 2018-11-06 Version: 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product No 56553

Product name c-Raf (D4B3J) Rabbit mAb (Biotinylated)

Reach registration number This substance/mixture contains only ingredients which have been registered, or are

exempt from registration, according to Regulation (EC) No. 1907/2006.

Contains

Chemical nameIndex No.CAS No.glycerol (30-60)Not Listed56-81-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For research use only

1.3. Details of the supplier of the safety data sheet

Importer (Applicable in EU only) Manufacturer

Cell Signaling Technology Europe B.V. Cell Signaling Technology, Inc.

Dellaertweg 9b 3 Trask Lane
2316 WZ Leiden Danvers, MA 01923
The Netherlands United States

TEL: +31 (0)71 7200 200 TEL: +1 978 867 2300 FAX: +31 (0)71 891 0019 FAX: +1 978 867 2400

Website www.cellsignal.com E-mail Address info@cellsignal.eu

1.4. Emergency telephone number

**CHEMTREC** 24 hours a day, 7 days a week, 365 days a year +1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)

Europe 112

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

### Supplemental hazard statement(s)

EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

May produce an allergic reaction.

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

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

Chemical name	CAS No.	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
glycerol	56-81-5	30-60	200-289-5	-	no data available

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

General advice Use first aid treatment according to the nature of the injury. When symptoms persist or in all

cases of doubt seek medical advice.

**Inhalation** Move to fresh air.

Skin contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Ingestion** Clean mouth with water and afterwards drink plenty of water.

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

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.

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

Notes to physician Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

surrounding environment.

Unsuitable Extinguishing Media None.

## 5.2. Special hazards arising from the substance or mixture

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

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Use personal protection recommended in Section 8.

#### 6.2. 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.

## 6.3. 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.

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

#### 6.4. Reference to other sections

See Sections 8 & 13 for additional information.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

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

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

## 7.3. Specific end use(s)

Use as a laboratory reagent.

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

#### 8.1. Control parameters

Chemical name	European Union	United Kingdom	France	Spain	Germany
glycerol		STEL 30 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	Ceiling / Peak: 400 mg/m <sup>3</sup>
		g			TWA: 200 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
glycerol		TWA 10 mg/m <sup>3</sup>		TWA 20 mg/m <sup>3</sup>	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
glycerol		SS-C**	TWA 10 mg/m <sup>3</sup>		TWA 10 mg/m <sup>3</sup>
		TWA 50 mg/m <sup>3</sup>			STEL 30 mg/m <sup>3</sup>
		STEL 100 mg/m <sup>3</sup>			

## 8.2. Exposure controls

# Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

Safety glasses with side-shields

Hand protection

Impervious gloves.

## 56553 c-Raf (D4B3J) Rabbit mAb (Biotinylated)

Other Wear suitable protective clothing.

When workers are facing concentrations above the exposure limit they must use Respiratory protection

appropriate certified respirators.

## **Environmental Exposure Controls**

No information available.

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

## 9.1. Information on basic physical and chemical properties

**Physical state** Liquid **Appearance** Clear Color Colorless

No information available Odor **Odor Threshold** No information available

Remarks • Method Property Values

@ 20 °C pН 7.4

No information available Melting point/freezing point Initial boiling point and boiling No information available

range No information available. Flash point **Evaporation rate** No information available Flammability (solid, gas) No information available Upper flammability limit No information available Lower flammability limit No information available Vapor pressure No information available Vapor density No information available Relative density No information available Solubility

No information available No information available Partition coefficient: n-octanol/water **Autoignition temperature** No information available **Decomposition temperature** No information available. No information available

**Viscosity Explosive properties** No information available **Oxidizing properties** No information available

9.2. Other information

Softening point No information available Molecular Weight No information available Solubility in other solvents No information available **VOC** content No information available **Liquid Density** No information available

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur. Hazardous polymerization **Hazardous reactions** None under normal processing.

#### 10.4. Conditions to avoid

Protect from light. Extremes of temperature and direct sunlight.

#### 10.5. Incompatible materials

Strong oxidizing agents. Metals.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides (COx). Nitrogen oxides (NOx).

# **SECTION 11: Toxicological information**

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

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h

#### Information on likely routes of exposure

**Inhalation** Avoid breathing vapors or mists.

**Eye contact** Avoid contact with eyes. **Skin contact** Avoid contact with skin.

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

No information available.

Symptoms 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.

Skin corrosion/irritation Serious eye damage/eye irritation

No information available. Sensitization No information available. **Mutagenic effects** No information available. Carcinogenic effects No information available. Reproductive toxicity No information available. STOT - single exposure No information available. No information available. STOT - repeated exposure **Aspiration Hazard** No information available. Other information No information available.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

No information available.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
			aquatic invertebrates
glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus	EC50 500 mg/L (Daphnia magna)
		mykiss) 96 h	24 h

#### **Unknown Aquatic Toxicity**

0% of the mixture consists of components of unknown hazards to the aquatic environment.

## 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

Bioaccumulation No information available. **Bioconcentration factor (BCF)** No information available.

Chemical name	Octanol-Water Partition Coefficient	
glycerol	-1.76	

## 12.4. Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

No information available.

## 12.6. Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

Other information

Waste codes should be assigned by the user based on the application for which the product

was used.

# **SECTION 14: Transport information**

## IMDG/IMO

14.1 UN number Not regulated Not regulated 14.2 UN proper shipping name 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards None 14.6 Special precautions for user None 14.7 Transport in bulk according to Not regulated

Annex II of MARPOL 73/78 and the

**IBC Code** 

## ADR/RID

14.1 UN number Not regulated Not regulated 14.2 UN proper shipping name 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards None 14.6 Special precautions for user None

# IATA

14.1 UN number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards None 14.6 Special precautions for user None

# **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## Candidate List of Substances of Very High Concern for Authorization Information

This product does not contain Substances of Very High Concern (SVHC).

#### **SEVESO Directive Information**

This product does not contain substances identified in the SEVESO Directive.

International inventories

TSCA 8(b) Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

#### International inventories legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out

## **SECTION 16: Other information**

#### Full text of H-Statements referred to under Sections 2 and 3

This substance/mixture does not meet the criteria for classification in accordance with Regulation (EC) No. 1272/2008

Classification procedure: Expert judgment and weight of evidence determination.

**Issuing Date:** 2018-11-06

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.