

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

Issuing Date: 2018-04-10 Version: 1

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

1.1. Product identifier

Product No 9807 Product name Paclitaxel

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 NoBenzenepropanoic acid,Not Listed33069-62-4

beta-(benzoylamino)-alpha-hydroxy-,

6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5, 6,9,10,11,12,12a,12b-dodecahydro-4,11-dihydrox y-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H -cyclodeca(3,4)benz(1,2-b)oxet-9-yl ester, (2aR-(2a-alpha,4-beta,4a-beta,6-beta,9-alpha(alpha-R*,beta-S*),11-alpha,12-alpha,12a-alpha, 12b-alpha))- (90 - 100%)

Formula C₄₇H₅₁NO₁₄ Molecular Weight 853.91 g/mol

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.

Schuttersveld 2 3 Trask Lane
2316 ZA Leiden Danvers, MA 01923
The Netherlands United States

TEL: +31 (0)71 7200 200 TEL: +1 978 867 2300 FAX: +31 (0)71 891 0098 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

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Respiratory sensitization	Category 1 - (H334)
Skin sensitization	Category 1 - (H317)
Germ cell mutagenicity	Category 2 - (H341)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity - single exposure (STOT SE)	Category 3 - (H335)
Chronic aquatic toxicity	Category 4 - (H413)

2.2. Label elements



Signal word Danger

Hazard statement(s)

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H341 Suspected of causing genetic defects
- H361 Suspected of damaging fertility or the unborn child
- H413 May cause long lasting harmful effects to aquatic life

Precautionary statement(s)

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P273 Avoid release to the environment
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P284 Wear respiratory protection
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P310 Immediately call a POISON CENTER or doctor/physician
- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- P362 Take off contaminated clothing and wash before reuse
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms Paclitaxel;

Abraxane® Taxol; Infinnium

Formula C₄₇H₅₁NO₁₄

Chemical nature Monoconstituent substance.

Chemical Name	CAS No	Weight %	EC No	Classification (1272/2008)	REACH Registration Number
Benzenepropanoic acid, beta-(benzoylamino)-alph a-hydroxy-, 6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5, 6,9,10,11,12,12a,12b-do decahydro-4,11-dihydrox y-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca(3,4)benz(1,2-b)oxet-9-yl ester, (2aR-(2a-alpha,4-beta,4a-beta,6-beta,9-alpha(alph a-R*,beta-S*),11-alpha,1 2-alpha,12a-alpha, 12b-alpha))-		100	-	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) STOT SE 3 (H335) Repr. 2 (H361) Aquatic Chronic 4 (H413)	no data available

For the full text of the R-phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. If symptoms persist, call a

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

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

Consult a physician. Artificial respiration and/or oxygen may be necessary.

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

shoes. If symptoms persist, call a physician.

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

rinsing.

Ingestion Clean mouth with water. Drink plenty of water. If symptoms persist, call a physician. Do not

induce vomiting without medical advice. Never give anything by mouth to an unconscious

person.

Protection of first-aidersUse personal protective equipment.

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

Signs and symptoms of acute overdose: Ventricular arrhythmias, erythema, congestive heart failure, dyspnea, neuropathy (peripheral), myopathy, dysphagia, diplopia, chest pain, stomatitis, wheezing, neuritis, leukopenia; neutropenia; agranulocytosis; granulocytopenia.

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

Notes to physician May cause sensitization of susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

surrounding environment.

Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid contact with skin, eyes and clothing. Use personal protective equipment. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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.

Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid dust formation. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Take

precautionary measures against static discharges.

6.4. Reference to other sections

See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. Use only in area provided with appropriate exhaust ventilation. Provide regular cleaning of equipment, work area and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from direct sunlight.

7.3. Specific end use(s)

Use as a laboratory reagent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly fitting safety goggles

Skin protection

Hand protection Impervious gloves.

Other Lightweight protective clothing. Apron. Impervious gloves. Long sleeved clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Environmental Exposure Controls

Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Crystalline Powder
Color White to off-white
Odor No information available
Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available

Melting point/freezing point 216-217 °C

Initial boiling point and boiling

range

Flash point
Evaporation rate
Flammability (solid, gas)
Upper flammability limit
Lower flammability limit

Vapor pressure
Vapor density
Relative density

Solubility Insoluble in water

Partition coefficient: n-octanol/water Autoignition temperature

Decomposition temperature Viscosity

Explosive properties
Oxidizing properties

No information available

No information available No information available. No information available

No information available

No information available. No information available

No information available No information available

No information available No information available

9.2. Other information

Softening point No information available

Molecular Weight 853.91 g/mol

Solubility in other solventsNo information availableVOC contentNo information availableDensityNo 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 Hazardous polymerization does not occur.

Hazardous reactions None under normal processing.

10.4. Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

10.6. Hazardous decomposition products

None under normal use conditions.

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.

Information on likely routes of exposure

InhalationMay cause irritation of respiratory tract.Eye contactMay cause irreversible damage to eyes.

Skin contact May cause sensitization by skin contact. Irritating to skin.

Ingestion Target Organ Effects. Reproductive Toxicity.

Symptoms Signs and symptoms of acute overdose: Ventricular arrhythmias, erythema, congestive

heart failure, dyspnea, neuropathy (peripheral), myopathy, dysphagia, diplopia, chest pain, stomatitis, wheezing, neuritis, leukopenia; neutropenia; agranulocytosis; granulocytopenia.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Risk of serious damage to eyes.

Sensitization May cause sensitization by skin contact.

Mutagenic effects The weight of evidence demonstrates that this material is not genotoxic.

Carcinogenic effects No information available.

Reproductive toxicity

This material is classified as a Pregnancy Category D: Positive evidence of risk. Fetal

anomalies included soft tissue and skeletal malformations, such as eye bulge, folded retina,

microphthalmia, and dilation of brain ventricles.

STOT - single exposureSTOT - repeated exposure
Respiratory system.
No information available.

Target Organ Effects Eyes, Skin, Reproductive system, Respiratory system.

Aspiration Hazard No information available.

Other information No information available.

SECTION 12: Ecological information

12.1. Toxicity

May cause long lasting harmful effects to aquatic life

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

BioaccumulationNo information available.

No information available.

Chemical Name	Octanol-Water Partition Coefficient
Benzenepropanoic acid, beta-(benzoylamino)-alpha-hydroxy-,	3
6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-d	
odecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-	
1H-cyclodeca(3,4)benz(1,2-b)oxet-9-yl ester,	
(2aR-(2a-alpha,4-beta,4a-beta,6-beta,9-alpha(alpha-R*,beta-S*),11-alph	
a,12-alpha,12a-alpha, 12b-alpha))-	

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

disposal.

Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. 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
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
Not regulated None None
None 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

9807 Paclitaxel

14.5 Environmental hazards None
14.6 Special precautions for user None

IATA

14.1UN numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNone14.6Special precautions for userNone

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) DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS -

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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H361 - Suspected of damaging fertility or the unborn child

H413 - May cause long lasting harmful effects to aquatic life

Classification procedure: Expert judgment and weight of evidence determination.

Issuing Date: 2018-04-10

Disclaimer

9807 Paclitaxel

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.