



## Paclitaxel

Sect.1 Sect.2	Sect.4 Sect.5 Sect.1	<u>1 Sect.14 Sect.15 Sec</u>	<u>et.16</u>		
1. Identification of the Substance and the Manufacturer					
1.1. Product	identifiers				
Product name	<u>Paclitaxel</u>	Formula	C47H51NO14		
Product Code	TX	RTECS	DA8340700		
CAS #	<u>33069-62-4</u>	Molecular weight	853.91 g/mol		
ECHA#	<u>608-826-9</u>	HSDB #	6839		
		Substance? Mixture?	Substance		
Synonyms	<ul> <li>Synonyms</li> <li>Paclitaxel</li> <li>Taxol</li> <li>Benzenepropanoic acid, 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-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-alpha,12-alpha,12a-alpha, 12b-alpha))-</li> </ul>				
Source	Taxus brevifolia	Version Date	12 October, 2024		
1.2. Intended	uses of the Substance and	d uses advised against			
Research and d	Research and development. Not a drug,				
Laboratory rea	gent.	Not a food additive			
Reference mate	rial.	Not to be used in huma	ans or animals.		
Manufacturing	of substances.				
To be used by p	professionals only				
1.3. Contacts					
1.3.1. Details of the supplier of the SDS					
FERMENTEK	FERMENTEK ltd Tel: +972 2 5853953				
		2 2 5853943			
	Jerusalem 97800, eMail: <u>Fermentek@Fermentek.com</u>				
Israel	YY7 1 .	<u>Safety@Fermentek.co</u>	<u>m</u>		
	Website:				
This company is the manufacturer of the product and the supplier of the safety data sheet					
1.3.2. Emergen	1.3.2. Emergency Telephone number				

For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887





# Paclitaxel

2. Hazards' identification						
2.1. Classification of the Substance 2.1.1. GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200)						
2.1.1. GHS Classific Acute Toxicity, Ingest		H303	Harmful if swall		[910.1200)	
Reproductive toxicity		H360D	May damage the			
			precautionary			
2.2. OIIS Laber	$\wedge \wedge$	0		statements		
2.2.1. Pictogram: {	,	gnal word	: {DANGER}			
<b>2.2.2.</b> Hazard States H302	<b>ments</b> Harmful if swall	lowed				
	May cause genet					
H360D	May damage the	unborn chil	d.			
2.2.3. GHS Precaut	ionary Statem	ents				
P203	Obtain, read and	follow all s	afety instructions befo	ere use.		
P261	Avoid breathing	dust or mist.				
P264	Wash {hands} the	oroughly aft	er handling.			
P270	Do not eat, drink	or smoke w	hen using this produc	t.		
P272	Contaminated we	ork clothing	should not be allowed	l out of the workpla	ice.	
P280		gloves/prote	ctive clothing/eye pro	tection/face protect	tion	
2.2.4. GHS Respons						
	IF SWALLOWED Rinse mouth.	): Get medic	al help.			
P305+P351+P338		EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and				
P318	If exposed or con	cerned, get i	nedical advice.			
P318	If exposed or con	cerned, get i	nedical advice			
3. Compositi	on/inform	ation or	n ingredients			
Substance			0			
Substance Name:	Paclitax	el				
Concentration	<=100%	6				
CAS Registry#: 33069-62-4						
<i>EC#:</i>		608-826-9				
Molecular Formula:		C47H51NO14				
Molecular Weight:		853.91 g/mol				
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Classification	•					
Mixture?	Substanc			<i>a t t</i>	0	<b>a - - - -</b>
<u>Sect.1</u> <u>Sect.2</u>	<u>Sect.4</u>	<u>Sect</u>	<u>.5</u> <u>Sect.11</u>	<u>Sect.14</u>	<u>Sect.15</u>	<u>Sect.16</u>





Safety Data Sheet:



# *4. First Aid Measures4.1. Description of First Aid Measures*

General advice:	First-aiders need to protect themselves. If medical attention is required, show this safety data sheet to the doctor in attendance.		
Eye contact:	Rinse out with plenty of water. Remove contact lenses.		
Skin Contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.		
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.		
Inhalation:	If inhaled, move the person into fresh air.		
4.2. Most important symptoms and effects, both acute and delayed			
General symptoms	None known		
4.3. Indication of any immediate medical attention and special treatment needed			
Note to physicians	No data available		





## Paclitaxel

5. Fire-fighting med 5.1. Extinguishing medi	
Suitable extinguishing media	<i>u</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None known
5.2. Other information	
Hazardous combustion products	Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ).
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.
6. Accidental releas	e measures
6.1. Personal precaution	ns, protective equipment and emergency procedures
Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
6.2. Environmental prec	cautions
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
6.3. Methods and mater	ial for containment and cleaning up
Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spill wa ith plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Cover liquid spill with sand, earth or other non- combustible absorbent material (e.g., sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.
7. Handling and sto	rage
7.1. Precautions for safe	e handling
Advice on safe handling:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.
	storage, including any incompatibilities
Storage Conditions:	Keep the container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at -20 °C.
Suitable packaging	Must only be kept in original packaging.
Incompatible materials:	None known based on information available.





# Paclitaxel

8.1. Control paramete	
Control parameters	Components with workplace control parameters
8.2. Exposure control	S
Appropriate engineering controls	Showers, Eyewash stations, Ventilation systems Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Use fume-hood for routine work.
<b>3.3. Personal protecti</b> [PPE=Personal Protection ]	
PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
PPE: Hand Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands
PPE: Eye Protection:	Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
PPE: Skin and Body Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

### Physical/chemical properties

9.1. $I$ <i>nysical/chemical</i> $\mu$	<b>7.1.</b> I hysical/chemical properties				
Physical State at room temperature	Solid / powder				
Color	White				
No further safety relevant data are available					
10. Stability and reactivity					
Reactivity:	No information available.				
Chemical stability: Stable under normal conditions.					
Conditions to avoid	Heat, flames and sparks. Sunlight.				





Sect.16

### Safety Data Sheet:

# Paclitaxel

Incompatible materials	Strong reducers and exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous combustion products	See section 5

Sect.11

Sect.14

Sect.15

### Sect.1 Sect.2 Sect.4 Sect.5 11. Toxicological information

### 11.1. Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet. *11.1.1.* Acute Toxicity

П.П.П. Асте Голицу	
Acute toxicity:	Oral, Mouse; Estimate: LD50 > 600 mg/kg based on experimental LD50/ Intraperitoneal/Mouse = 128mg/kg
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	Reported in animals and humans
11.1.2. Chronic toxicity	
Chronic toxicity	No data available
11.1.3. CRM (Carcinogene, M	Mutagene, Reproductive hazards)
Germ cell mutagenicity:	Mutagenicity was reported in rodents, primates incl humans, and insects, both in vitro and in vivo.
Carcinogenicity:	Tumorigenicity was reported in rodents, primates incl humans, both in vitro and in vivo.
Reproductive toxicity /	<i>Reproductive effects, maternal and paternal reported (animals)</i>
Teratogenicity:	Reproductive effects: developmental abnormalities reported (animals)
11.2. Additional informa	ition
RTECS number	DA8340700
General symptoms	Behavioral - somnolence (general depressed activity)

### 12. Ecological Information

Eco-Toxicity	No data available			
Other adverse effects	No data available			
13. Disposal Considerations				
13.1. Waste treatment methods				
Waste Disposal	Dispose of in accordance with local regulations			
Contaminated packaging	Dispose of as unused product			



14.

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Transport information

Sect 1

Sect 2



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Sect.1 Sect.2	Sect.4 Sec	<u>Sect.11</u>	Sect.14 Sec	ct.15 Sect.16		
14.1. UN number,	<b>Proper Shipping</b>	Name, Transport	Hazard Class, pa	cking group		
	US DOT	ADR/RID	IATA	IMDG		
UN Number UN proper shipping	Not classified. Not hazardous.	Not classified. Not hazardous.	Not classified. Not hazardous.	Not classified. Not hazardous.		
name	(Paclitaxel)	(Paclitaxel)	(Paclitaxel)	(Paclitaxel)		
Transport Hazard	Not hazardous for transport.	Not hazardous for transport.	Not hazardous for transport.	Not hazardous for transport.		
Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated		
Additional information				Not marine pollutant		
De Minimis exemption	E1, E2, E4, or E5, this	s of less than or equal to 1 item meets the De Minimi does not have to be label	s Quantities exemption,	per IATA 2.6.10.		
15. Regulatory	information					
Sect.1 Sect.2	Sect.4 Sec	<u>Sect.11</u>	Sect.14 Sec	<u>sect.15</u>		
15.1. Safety, health	n, and environmer	tal regulations/le	gislation			
USA EPA / TSCA	This product is not	This product is not listed on the USA EPA TSCA (it is for research)				
California Proposition	65 Listed:			Developmental •		
		<i>Female Reproductive</i> •				
	• Male Rep					
EU ECHA Status	EU ECHA StatusThis product is registered with the EU ECHA, Number 608-826-9REACH: PreRegistered					
	ANNEX III (criteria for 1 - 10 tonne registered substances): Listed					
	Reasons for listing:					
a. Suspected persistent in the environment b. Suspected toxic for reproduction						
	c. Suspected	d skin sensitizer				
16. Other information						
Sect.1 Sect.2	<u>Sect.1</u> <u>Sect.2</u> <u>Sect.4</u> <u>Sect.5</u> <u>Sect.11</u> <u>Sect.14</u> <u>Sect.15</u> <u>Sect.16</u>					
16.1. Department issuing this SDS						
Quality systems and regulatory affairs						
16.2 Conoral Disclaimor						

#### 16.2. General 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 here is designed only as 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.





# Paclitaxel

### 16.3. The users'/employers' responsibility:

A risk assessment should be performed by the employer/user prior to the use of this product.

All recommendations included in this document, are advisory in nature.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

#### 16.4. No-Copyright statement

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#### 16.5. Abbreviations and acronyms:

10.5. 11001					
Acute Tox.:	Acute toxicity	LD50:	Lethal dose, Median		
CAS:	Chemical Abstracts Service	NFPA:	National Fire Protection Association USA		
DOT:	US Department of Transportation	NIOSH:	National Institute for Occupational Safety		
EINECS:	European Inventory of Existing Commercial Chemical Substances	OSHA:	Occupational Safety & Health		
Eye Dam.:	Serious eye damage/eye irritation	PBT:	Persistent, Bioaccumulative, and Toxic		
HSDB	Hazardous Substances Data Bank	PEL:	Permissible Exposure Limit		
HMIS:	Hazardous Materials Identification System (USA)	REL:	Recommended Exposure Limit		
IATA:	International Air Transport Association	Repr.:	Reproductive toxicity		
IMDG:	International Maritime Code for Dangerous Goods	RTECS:	Registry of Toxic Effects of Chemical Substances		
LC50:	Lethal concentration, Median				
LD50:	Lethal dose median	Skin Irrit:	Skin corrosion/irritation		
		TDLO	Toxic dose, least published		
NDG	Not dangerous goods (for transport)				

16.6. End of SDS