

Revision Date 03-Dec-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Description:
Cat No.
Synonyms

Podophyllotoxin 228410000; 228411000

Furo(3`,4`:6,7)naphtho(2,3-d)-1,3-dioxol-6(5ah)-one,5,8,8a,9-tetrahydro-9-hydroxy-5-(3,

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

 Recommended Use
 Laboratory chemicals

 Uses advised against
 No Information available

 Details of the supplier of the safety data sheet

 Company

 Acros Organics BVBA

 Janssen Pharmaceuticalaan 3a

 2440 Geel, Belgium

 E-mail address

 begel.sdsdesk@thermofisher.com

 Emergency Telephone Number

 For information in the US, call: 800-ACROS-01

 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/ECFor the full text of the R phrases mentioned in this Section, see Section 16Symbol(s)T - ToxicR -phrase(s)noneRisk Combination PhrasesR23/25 - Toxic by inhalation and if swallowed

Label Elements





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2. HAZARDS IDENTIFICATION



Signal Word

Danger

Hazard Statements

H331 - Toxic if inhaled H311 - Toxic in contact with skin H301 - Toxic if swallowed

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P302 + P350 - IF ON SKIN: Gently 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

Other Hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
1,3,3a,4,9,9a-Hexahydro-9-hydroxy-	EEC No. 208-	95	518-28-5	T; R23/25	Acute Tox. 3	-
6,7-(methylenedioxy)-4-(3',4',5'-	250-4				(H301)	
trimethoxyphenyl)benz[f]isobenzofura					Acute Tox. 3	
n-3-one					(H331)	
518-28-5					· · ·	

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

4. FIRST AID MEASURES

Description of first aid measures Eye Contact	Immediate medical attention is required Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Immediate medical attention is required



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Ingestion	Call a physician immediately Clean mouth with water
Inhalation	Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Obtain medical attention
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media Water spray Carbon dioxide (CO₂) Dry chemical chemical foam

Extinguishing media which must not be used for safety reasons No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable and closed containers for disposal. Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe dust Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Use only in area provided with appropriate exhaust ventilation

Conditions for safe storage, including any incompatibilities

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

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Control parameters Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.		
Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC) Exposure controls	No information available. No information available.		
Engineering Measures Personal protective equipment	Ensure adequate ventilation, especially in confined areas		
Eye Protection Hand Protection Skin and body protection Respiratory Protection	Goggles Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced		
Hygiene Measures Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice No information available.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Appearance
odor
рН
Vapor Pressure
Vapor Density
Boiling Point/Range
Melting Point/Range
Flash Point
Molecular Formula
Molecular Weight

Powder, Solid Off-white odorless No information available. No information available. No information available. No information available. 178 - 184°C / 352.4 - 363.2°F No information available. C22 H22 O8 414.4

10. STABILITY AND REACTIVITY

Reactivity Chemical Stability Stable under normal conditions

Possibility of Hazardous Reactions Hazardous Polymerization Hazardous Reactions .

No information available No information available.

Conditions to Avoid Heat, flames and sparks



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Incompatible Materials

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information

No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,3,3a,4,9,9a-Hexahydro-9-		200 mg/kg (Rabbit)	
hydroxy-6,7-		500 mg/kg (Rat)	
(methylenedioxy)-4-(3',4',5'-			
trimethoxyphenyl)benz[f]isobe			
nzofuran-3-one			

Chronic Toxicity

Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization	No information available.
Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	No information available.
Other Adverse Effects Endocrine Disruptor Information	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information None known

12. ECOLOGICAL INFORMATION

Toxicity Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability No information available Bioaccumulative potential

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12. ECOLOGICAL INFORMATION

No information available. Mobility in soil No information available. Results of PBT and vPvB assessment Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods Waste from Residues / Unused	Dispose of in accordance with local regulations
Products Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	2811
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.

ADR

UN-No	2811
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.

IATA

UN-No	2811
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.*

15. REGULATORY INFORMATION

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

International Inventories											
Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL





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1,3,3a,4,9,9a-Hexahydro-9-	208-250-4	-	-	-	-	-	-	-	Х	-
hydroxy-6,7-(methylenedioxy)-4-										
(3',4',5'-										
trimethoxyphenyl)benz[f]isobenzof										
uran-3-one										

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory EINECS/ELINCS - European Inventory Lists DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japan Existing and New Chemical Substances CHINA - China Inventory of Existing Chemical Substances AICS - Inventory of Chemical Substances KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

R23/25 - Toxic by inhalation and if swallowed

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 Revision Summary
 Not applicable

 This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

 Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

End of Safety Data Sheet