

Safety Data Sheet per OSHA HazCom 2012

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	See Section 7 for information on safe handling	
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Product name: Ecdysterone

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See Section 13 for disposal information		(Contd. of page 1)	
7 Handling and storage			
Handling Breasutions for safe bandling Keep container tightly sociad			
Precautions for safe handling Keep container tightly sealed. Information about protection against explosions and fires: No information known.			
Conditions for safe storage, including any incompatibilities Storage			
	ns and receptacles: Store in freezer (-20 °C). nmon storage facility:		
Protect from heat. Store away from oxidizing agents.	inton storage racincy.		
Further information about storage co	nditions: Keep container tightly sealed. t information available.		
8 Exposure controls/personal prot			
Additional information about design			
Properly operating chemical fume hood	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.		
Control parameters Components with limit values that re			
The product does not contain any releva Additional information: No data	ant quantities of materials with critical values that have to be monitored at the workplace.		
Exposure controls			
General protective and hygienic mea	Personal protective equipment General protective and hygienic measures		
The usual precautionary measures for <i>I</i> Keep away from foodstuffs, beverages	and feed.		
Remove all soiled and contaminated clo Wash hands before breaks and at the e	othing immediately. and of work.		
Maintain an ergonomically appropriate v	working environment. spirator when high concentrations are present.		
Protection of hands: Impervious gloves			
Check protective aloves prior to each us	se for their proper condition.		
Penetration time of glove material (in	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. • minutes) Not determined		
Eye protection: Safety glasses Body protection: Protective work cloth	ing.		
9 Physical and chemical properties Information on basic physical and ch			
General Information Appearance:			
Form:	Powder		
Color: Odor:	White Not determined		
Odor threshold: pH-value:	Not determined. Not applicable.		
Change in condition			
Melting point/Melting range: Boiling point/Boiling range:	242-244 °C (468-471 °F) Not determined		
Sublimation temperature / start:	Not determined		
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined. Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion:	Not determined.		
Explosion limits: Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density:	Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Not determined		
Partition coefficient (n-octanol/water) Viscosity:			
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Chemical stability Stable under recom	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions Re Conditions to avoid No further relevan	eacts with strong oxidizing agents		

Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide

USA (Contd. on page 3)

Product name: Ecdysterone

	(Contd. of page 2)
11 Toxicological information	
Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in the LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substances Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substances Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully	ance. A or ACGIH. stance.
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Not applicable	
Packing group DOT, IMDG, IATA Not applicable	
Environmental hazards: Not applicable.	
Special precautions for user Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	
DOT	
Marine Pollutant (DOT): No No	
UN "Model Regulation": -	
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable Hazard statements Not applicable Hazard statements Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Invent to research and development only. This product must be used by or directly under the supervision of a technically qualified indivi- product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (ND SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity substance is not listed. Prop 65 - Developmental toxicity regulations and prohibitive regulations	vidúal as defined by TSCA. This

The regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. USA-

Product name: Ecdysterone

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16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service, (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Zafety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)