

Page 1/8

Printing date 06/08/2021

Revision date 06/08/2021

1 lo	dentification
·P	roduct identifier
· S 2-	rade name: <u>Pregabalin Diacid Impurity</u> ynonym -(2-methylpropyl)-butanedioic acid sobutyl Succinic Acid
· C 5 · E 84 · A	rticle number: 34150 AS Number: 702-99-8 C number: 40-863-8 pplication of the substance / the mixture his product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the esponsibility of the purchaser to determine suitability for other applications.
• <b>M</b> C 1* A	etails of the supplier of the safety data sheet lanufacturer/Supplier: ayman Chemical Co. 180 E. Ellsworth Rd. nn Arbor, MI 48108 SA
• <b>E</b> D U	formation department: Product safety department mergency telephone number: uring normal opening times: +1 (734) 971-3335 S/CANADA: 800-424-9300 putside US/CANADA: 703-741-5970
<b>2</b> H	azard(s) identification
· C	lassification of the substance or mixture
<	GHS05 Corrosion
E	ve Dam. 1 H318 Causes serious eye damage.
<	GHS07
-	kin Irrit. 2 H315 Causes skin irritation. TOT SE 3 H335 May cause respiratory irritation.
· L · G	abel elements HS label elements he substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2

Printing date 06/08/2021

Revision date 06/08/2021

## Trade name: Pregabalin Diacid Impurity

(Contd. from page 1)

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<ul> <li>Hazard pictog</li> </ul>	rams
Pa	
<u>ب</u> چ ج	
GHS05 GHS	07
· Signal word D	
· Hazard statem	
H315 Causes s	
	serious eye damage.
H335 May caus	se respiratory irritation.
Precautionary	statements
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	
	Wear protective gloves / eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 501	regulations.
Classification	•
Classification	
NFPA ratings	(SCAIE 0 - 4)
🔶 ц	
	ealth = $3$
	re = 0
	eactivity = 0
HMIS-ratings (	scale 0 - 4)
HEALTH *3 H	
	Health = *3
	Fire = 0
REACTIVITY 0 F	Reactivity = 0
Other hazards	
Results of PB	T and vPvB assessment
PBT: Not applie	cable.
vPvB: Not app	licable.
••	
Compositio	n/information on ingredients
Chemical char	acterization: Substances
CAS No. Desc	

**CAS No. Description** 5702-99-8 Pregabalin Diacid Impurity

(Contd. on page 3)

US

Printing date 06/08/2021

#### Revision date 06/08/2021

#### Trade name: Pregabalin Diacid Impurity

(Contd. from page 2)

## Identification number(s)

· EC number: 840-863-8

## 4 First-aid measures

- Description of first aid measures
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Use neutralizing agent. Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- **PAC-3:** Substance is not listed.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling Thorough dedusting.

(Contd. on page 4)

US

Printing date 06/08/2021

Revision date 06/08/2021

Trade name: Pregabalin Diacid Impurity

(Contd. from page 3)

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eves and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

(Contd. on page 5)

Printing date 06/08/2021

Revision date 06/08/2021

## Trade name: Pregabalin Diacid Impurity

(Contd. from page 4)

Information on basic physical and chemical properties         General Information         Appearance:         Form:       Solid         Odor:       Not determined.         Odor:       Characteristic         Structural Formula       C8H14O4         Molecular Weight       174.2 g/mol         Odor threshold:       Not determined.         pH-value:       Not applicable.         Change in condition       Melting point/Melting range:         Molecular Weight       Undetermined.         PH-value:       Not applicable.         Change in condition melting point/Molting range:       Undetermined.         Flash point:       Not applicable.         Flash point:       Not determined.         Decomposition temperature:       Not determined.         Auto igniting:       Not determined.         Danger of explosion:       Product does not present an explosion hazard.         Explosion limits:       Lower:         Lower:       Not determined.         Vapor pressure:       Not determined.         Vapor density       Not determined.         Vapor density       Not determined.         Vapor density       Not determined.         Vapor density       Not determine	9 Physical and chemical properties							
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SOLUBILITY (slightly): DMSO; MeOH								
	SOLUBILITY							
	· Other information							

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided:

- No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.

(Contd. on page 6)

Printing date 06/08/2021

Revision date 06/08/2021

(Contd. from page 5)

#### Trade name: Pregabalin Diacid Impurity

- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products: carbon oxides

## **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 7)

Printing date 06/08/2021

#### Revision date 06/08/2021

#### Trade name: Pregabalin Diacid Impurity

(Contd. from page 6)

Transport information		
· UN-Number · DOT, IMDG, IATA	not regulated	
· · ·	liot regulated	
<ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA		
· Class	not regulated	
· Packing group		
· DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	Il of Not applicable.	
	••	
· UN "Model Regulation":	not regulated	

### **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances): Substance is not listed.

- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

(Contd. on page 8)

US

Printing date 06/08/2021

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## Trade name: Pregabalin Diacid Impurity

	(Contd. from page 7)
<ul> <li>Department issuing SDS: Environment protection department.</li> </ul>	
Contact: -	
Date of preparation / last revision 06/08/2021 / -	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
	US