



IOL CHEMICALS AND PHARMACEUTICALS LTD.

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MATERIAL SAFETY DATA SHEET

Doc #: EHS/F/027

Ref SOP #: EHS/SOP/024

Product Name: Gabapentin

Effective Date: 05.05.2023

Rev. #: 01

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Gabapentin		
Chemical Formula	C ₉ H ₁₇ NO ₂	Chemical Name	Gabapentin
Synonyms	1-(Aminomethyl)cyclohexanecarboxylic Acid; Neurontin		
Company Identification	IOL Chemicals and Pharmaceuticals Limited Vill. - Fatehgarh Channa, Mansa Road, Trident Complex, Barnala - 148101 (Punjab) India Tel No.: +91-1679-285285-86 Fax No.: +91-1679-285292 Email: contact@iolcp.com		

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	Gabapentin	LD₅₀ of Ingredients (specify species & route of administration)	ORAL (LD ₅₀): Acute: >8000 mg/kg [Rat]. >8053 mg/kg [Mouse].
% (by weight)	100 %	LC₅₀ of Ingredients (specify species)	Not available
CAS Number	60142-96-3	EC No.	262-076-3

SECTION 3 - HAZARDS IDENTIFICATION



Route of Entry	Skin Contact	Skin Absorption	Eye Contact	Inhalation	Ingestion
Symptoms	May cause irritation	May cause allergic skin reaction	Dust can cause eye irritation	Can cause respiratory tract and mucous membrane irritation	May cause digestive tract irritation with nausea. May also affect Nervous system (CNS).
Health Class	Hazard Statement(s): H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H360 May damage fertility or the unborn child. Precautionary statement(s) P201 Obtain special instructions before use.				



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	<p>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice/ attention.</p>
[WHMIS Symbols]	  <p>Signal word : Danger</p>

SECTION 4 - FIRST AID MEASURES

Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact	Not available
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Serious Eye Contact	Not available
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion	Not available

SECTION 5 - FIRE FIGHTING MEASURES

Flammable:		May be combustible at high temperature.			
Means of Extinction & Instruction		Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
Fire Class		Not Available			
Flash Point		UEL (% by volume)	Not Available	LEL (% by volume)	Not Available
Open Cup	Not Available				
Close Cup					
Auto Ignition Temperature	Not Available	Explosion Data Sensitivity To Contact	Not Available	Explosion Data-Sensitivity to Static Discharge	Not Available



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Hazardous Combustion Products	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...).
Fire Hazard in Presence of	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
Explosion Hazard	Not Available
Remarks on Fire Hazard	Not Available
Extinguishing Media	Water spray, dry powder, carbon dioxide, foam

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Small Spill/Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill/Leak	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7 - HANDLING AND STORAGE

Handling Procedure	Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe vapors/dust. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Do not ingest.
Storage & Condition	Keep container tightly closed and store at room temperature, protected from moisture.
Storage Protection	Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.
General Occupational Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Remarks on Storage	Keep container tightly closed and store at room temperature, protected from moisture.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH / TLV	OSHA (PEL)	NIOSH (REL)
TWA	Not Available	Not Available	Not Available
STEL	Not Available	Not Available	Not Available
Specific Engineering Controls: Use process enclosures, local exhaust ventilation, or other			



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engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protection:

1. **Respiratory Protection:** Breathing protection if breathable aerosols/dust are formed. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).
2. **Eye Protection:** Safety glasses with side-shields (frame goggles) (e.g. EN 166).
3. **Skin / Hands Protection:** Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
4. **Others:** Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Thermal Hazards: Not Available

Environmental Exposure Control: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State & Appearance	Solid.	Odour	Not Available
Odour Threshold (ppm)	Not Available	Molecular Weight	171.24 g/mol
Color	Not Available	Melting Point	166 °C / 330.8 °F
Specific Gravity	Not Available	Vapour Density (Air=1)	Not Available
Vapour Pressure (mm of Hg)	Not Available	Evaporation Rate/Volatility	Not Available
Boiling Point	Not Available	Freezing Point (°C)	Not Available
pH (1% Solution in Water)	Not Available	Coefficient of Water/Oil Distribution	Not Available
Solubility in Water	Not Available	Taste	Not Available
Ionicity	Not Available	Critical Temperature	Not Available
Oxidization Property	Not Available	Decomposition Temperature	Not Available



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Viscosity	Not Available	Dispersion Property	Not Available
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SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability	The product is stable. Conditions of Instability: Excess heat, incompatible materials
Incompatibility with Other Substances	Reactive with oxidizing agents.
Reactivity and its Conditions:	
Reactivity Class	Not Available
Corrosively	Not Available
Polymerization	Will not occur.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NO _x)

SECTION 11 - TOXICOLOGICAL INFORMATION

Effect on Animals	Routes of Entry: Inhalation. Ingestion. Toxicity to Animals: Acute oral toxicity (LD ₅₀): >8000 mg/kg [Rat].		
Chronic Effect on Human	. May cause damage to the following organs: central nervous system (CNS), pancreas. Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects and birth defects based on animal data		
Toxic Effect on Human	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Dust can cause eye irritation. Inhalation: Can cause respiratory tract and mucous membrane irritation. Ingestion: May cause digestive tract irritation with nausea. May also affect behavior/Central Nervous system (CNS). Symptoms may include headache, dizziness, and CNS depression		
Irritancy of Product	Irritating to eyes and respiratory system		
Skin Sensitization	Causes skin irritation.		
Respiratory Sensitization	Can cause respiratory tract and mucous membrane irritation.		
Carcinogenicity-IARC	Not Available	Carcinogenicity (ACGIH)	Not Available
Reproductive Toxicity	May cause harm to	Teratogenicity	Not Available



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	the unborn child.		
Embrototoxicity	Not Available	Mutagenicity	Not Available
Developmental Toxicity	Not Available	Aspiration Hazard	Not Available
Specific Target Organ Toxicity - Single Exposure	Inhalation - May cause respiratory irritation	Specific Target Organ Toxicity- Repeated Exposure	Not Available
Name of Synergistic Products/Effects	Not Available		

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity	Not available.
BOD & COD	Not available.
Biodegradation Product	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of Biodegradation Product	The product itself and its products of degradation are not toxic.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.
Waste Code	Not Available

SECTION 14 - TRANSPORT INFORMATION

Special Shipping Information	Not classified as a dangerous good under transport regulations.	
Transport Classification	Class: Not Available	Property: Solid
Identification	Not Available	
Hazchem Code	Not Available	
TDG	Not Available	
IMO	Proper Shipping Name	NA
	Hazards Class	NA
	UN Number	NA
	Packing Group	NA



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SECTION 15 - REGULATORY INFORMATION

WHMIS Classification	Not controlled under WHMIS (Canada).		
OSHA	Not Available		
DSCL (EEC)	R Phrases: R40- Possible risks of irreversible effects. R62- Possible risk of impaired fertility. R63- Possible risk of harm to the unborn child. S Phrases: S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves.		
NFPA (USA)	Health Hazard 1,	Flammability 1,	Reactivity Hazard 0
Health Hazard	1	Flammability Hazard	1
Reactivity Hazard	0	Other Hazard	E

SECTION 16 - OTHER INFORMATION

References: http://www.Fisher Scientific.com , www. ScienceLab.com , www. sigma-aldrich.com
Danger! Causes skin irritation Causes serious eye irritation May cause respiratory irritation May damage the unborn child
Label Precautions: Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area
Label First Aid: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled get medical attention immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes.

