SAFETY DATA SHEETS

This SDS packet was issued with item: 078726756

N/A



Material Safety Data Sheet

Section 1. Pro	oduct Identification and Uses					
Common/Trade name	Paroxetine hydrochloride	DSL#	Not on the DSL list.			
Synonyms	Paroxetine hydrochloride hemihydrate	CAS#	78246-49-8			
Chemical name	Piperidine, 3-((1,3-benzodioxol-5-yloxy)methyl)-4-(4- fluorophenyl)-, hydrochloride, (3S-trans)-	Molecular weight	365.83g/mole			
Chemical family	Phenylpiperidine derivative	Chemical formula	C ₁₉ H ₂₀ FNO ₃ . HCI			
Supplier	Brantford Chemicals Inc. Station Main, P.O. Box 1976, Brantford, Ontario N3T 5W5 Tel#: (519) 756-8942	Chemical structure	$ \underset{F}{\overset{H}{}} \overset{H}{} \overset{O}{} \overset{O}{} \overset{H}{} \overset{H}{} \overset{O}{} \overset{H}{} \overset{H}{$			
Material uses	Pharmaceutical industry: Pharmaceutical ingredient. Therapeutic category: Antidepressant; SSRI	Manufacturer	Not available			
Emergency phone	1- (416)-749-9300 ext. 5555 For general information call ext. 8483 (8 A.M 4 P.M.)	DIN	Not applicable			
Section 2. Ha	zards Identification					
Potential Acute Hea Effects	Potential Acute Health Possible eye, skin, gastrointestinal and/or respiratory tract irritation. Effects					
Potential Chronic Health Possible hypersensitization. Effects						
WHMIS Apotex Hazard	CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).					
(For Apotex internal practices only)	actices only)					
Section 3. Firs	st Aid Measures					
Eye contact	/MEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Take care not to rinse ontaminated water into the non-affected eye. Always seek medical attention for accidents involving the eyes.					
Skin contact	Flush the contact area with lukewarm running water for a persists.	ish the contact area with lukewarm running water for at least 15 minutes. Seek medical attention if symptoms rsists.				
Hazardous skin contact	Flush the contact area with lukewarm running water for at least 15 minutes. Seek medical attention if symptoms persists. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing before reuse. Unless contact has been slight or if irritation persists see medical attention.					
Slight inhalation	Allow the victim to rest in a well ventilated area. Seek im	mediate medical attent	ion if irritation persists.			
Hazardous inhalation	Take proper precautions to ensure your own safety before move victim to fresh air. If breathing is difficult, give oxyg artificial respiration, or if the heart has stopped, cardioput attention.	re attempting rescue. F en. If breathing has sto Imonary resuscitation (0	Remove source of contamination or pped, trained personnel should begin CPR) immediately. Seek medical			

Continued on Next Page

Obtained by Global Safety Management, Inc. www.globalsafetynet.com

Paroxetine hydrochloride			Page Number: 2
Slight ingestion	Flush out mouth with water. Seek medical attention if	symptoms persists.	
 Hazardous ingestion Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention. Overdose treatment: Treatment should be symptomatic and supportive and may include the following: Do not induce vomiting. To decrease absorption, perform gastric lavage and administer activated charcoal as a slurry. Monitor cardiac and central nervous system function; establish and monitor airway; monitor vital signs. For hypotension, infuse isotonic fluid. If hypotension persists, administer dopamine or norepinephrine. For seizures, administer an intravenous benzodiazepine. If seizures recur, consider phenobarbital or propofol. Monitor for hypotension, dysrhythmias, respiratory depression, and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte disturbances, and hypoxia. For serotonin syndrome, administer cyproheptadine orally. Due to the large volume distribution of paroxetine, forced diuresis, hemodialysis, hemoperfusion, or exchange transfusions are not likely to be of benefit. [Poisindex 2009; PDR 2009] 			
Section 4. Ha	zardous Ingredients		
Name		CAS #	% (w/w)
Paroxetine hydrochlo	ride	78246-49-8	100

Toxicity values of the hazardous ingredients

Refer to Sec. 11.

TLV Industry : 40 micrograms/m³ (hemihydrate)

Section 5. Fire	Fighting Measures		
The product is:	May be combustible.		
Autoignition temperature	Not available.		
Fire degradation products	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), halogenated compounds.		
Flash points	Not applicable		
Flammable limits	Not available.		
Fire extinguishing procedures	Extinguisher media: water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials. Special fire fighting procedures: As with all fires, evacuate personnel to safe area. Firefighters should use self-contained breathing equipment and protective clothing.		
Flammability	Emits toxic fumes under fire conditions.		
	Remark		
	No additional remark.		
Risks of explosion	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Fine airborne dust can be ignited by static discharge.		
	Remark		
	No additional remark.		
Section 6. Acc	idental Release Measures		
Spill and leak	Vacuum or sweep up spillage. Avoid dust. Place spillage into an appropriate labeled waste disposal container. Wash contaminated clothing before reuse. Ventilate area and wash spill site. Follow appropriate Safe Work Practices.		
Protective Clothing P	victograms in case of large spill and/or high exposure levels		
Protective clothing in case of large spill	Hooded Full suit -Tyvek coveralls or equivalent. Powered Air Purifying Respirator with combination particulate/organic vapour cartridge. Gloves.		
Continued on	Next Page Obtained by Global Safety Management, Inc. www.globalsafetynet.com		

Paroxetine hydrochloride



Section 7. Hand	lling and Storage
Precautions	Use with adequate dust control. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid inhalation, skin and eye contact. Wash thoroughly after handling. Pregnant women should avoid exposure to this product.
Storage	Keep in tight containers under Nitrogen. Store at 20°C to 25°C (68°F to 77°F).
Section 8. Expos	ure Controls/Personal Protection
Engineering Controls	Exposure to this material can be controlled in many ways. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. This general information can be used to help develop specific control measures. Ensure that control systems are properly designed and maintained. Comply with occupational, environmental, fire, and other applicable regulations. Engineering methods to control hazardous conditions are preferred. Methods include mechanical (local exhaust) ventilation, process or personnel enclosure and control of process conditions. Administrative controls and personal protective equipment may also be required. Supply sufficient replacement air to make up for air removed by exhaust system.
Personal Protection	Splash goggles. Full suit with hood, or disposable/washable coveralls. Half facepiece Air Purifying Respirator with combination particulate/organic vapour cartridge (less then 1 kg). Powered Air Purifying Respirator (PAPR) with combination particulate/organic vapour cartridge (greater then 1 kg). Nitrile gloves (impervious). Chemical fume hood.
Protective Clothing (Pictograms)	
	 PERSONAL PROTECTIVE EQUIPMENT: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal proteive equipment, including approved respiratory protection. Have appropriate equipment available for use in emergencies such as spills or fire. If respiratory protection is required, institute a complete respiratory protection program, including selection, fit testing, training, maintenance and inspection. Refer to the CSA Standard Z94, "Selection, Care, and Use of Respirators". RESPIRATORY PROTECTION GUIDELINES: Where Local Exhaust Ventilation (LEV) at dust generating process points exists, respiratory protection may not be required. When working with quantities less than 1 kg and in the absence of appropriate Local Exhaust Ventilation (LEV) with dusty processes, a half facepice Air Purifying Respirator with combination particulate/organic vapour cartridge and goggles is recommended. When working with quantities greater than 1 kg and in the absence of Local Exhaust Ventilation (LEV) with dusty processes, a Powered Air Purifying Respirator (PAPR) with combination particulate/organic vapour cartridge and helmet/hood or Supplied Air Respirator (SAR) is recommended. The specific respirator selected must be based on contamination levels found in the work place, the specific operation and not exceed the working limits of the respirator. PROTECTIVE CLOTHING/SKIN PROTECTION: Glove selection must take into account any solvents and other hazards present. The selection of gloves for a specific activity must be based on the material's properties and on possible permeation and degradation that may occur under the circumstances of use. Potential allergic reactions can occur with certain glove materials (e.g. Latex) and therefore these should be avoided. Full environmental suit with hood. and/or other resistant protective clothing when working in dusty areas. H

Paroxetine hydrochloride

Page Number: 4

Section 9. Physical	and Chemical Properties	-	
Physical state and appearance	Solid. (Powder)	Odor	Odorless.
рН	6 - 7 (aqueous solution)	Taste	Not available.
Odor threshold	Not available.	Color	Off-white.
Volatility	Not available.		
Melting point/ Freezing point	120 - 145° C (hemihydrate); 115 - 126° C (anhydrous)		
Boiling point	Not available.		
Specific gravity	Not available.		
Vapor density	Not available.		
Vapor pressure	Not available.		
Partition Coefficient:	Log Pow = 1.3 (hemihydrate)		
Ionicity (surface active agent)	Not available.		
Critical temperature	Not available.		
Instability temperature	Not available.		
Conditions of instability	No additional remark.		
Dispersion properties	See solubility.		
Evaporation rate	Not available.		
Solubility	Slightly soluble in water. Soluble in ethanol and in m	iethanol.	
Section 10. Stab	ility and Reactivity		
Stability	Normally stable.		
Hazardous decomp. products	Toxic fumes of: carbon monoxide, carbon dioxide, nitrogen oxides.		
Degradability	Not available.		
Corrosivity	Not available.		
	Remark		
	No additional remark.		
Reactivity/ Incompatibility	Strong oxidizing agents, strong bases. Avoid exposu	ire to light a	and heat.
	Remark		
	Not additional remark.		
Section 11. Toxic	cological Information		
Routes of entry	Eye contact. Ingestion. Inhalation. Skin contact.		
Toxicity data	LD50: 374 mg/kg (hemihydrate); 415 mg/kg (anhydrou LD50: 378 mg/kg (anhydrous) (oral-mouse) Irritancy Data: Skin/Rabbit: non-irritant (intact skin): irr	us) (oral-rat ritant (abrac	:) Jed skin) (hemihydrate)
	Eye/species not reported: severe		

Obtained by Global Safety Management, Inc. www.globalsafetynet.com

Paroxetine hyd	Irochloride	Page Number: 5
Long-term effects	Possible hypersensitization. Carcinogenicity: Not listed by IARC, NTP, ACGIH, or OSHA. In a two-year carcinogenicity study, a significantly greater number of male exhibited reticulum cell sarcomas than did rats receiving lower doses. There occurrence of lymphoreticular tumors in male rats. Female rats were not affected. In mice, there was a dose-related increase in the number of tumor number of mice with tumors. The relevance of these findings to humans is Reproductive Toxicity: Rats receiving paroxetine in fertility studies showed lesions occurred in the reproductive tract of male rats in toxicity studies. Teratogenicity: Pregnanacy Category: D. Rats receiving paroxetine at dose showed reduced pregnancy rates. Irreversible lesions occurred in the repro 25 and 50 mg/kg/day for 2 to 52 weeks) in toxicity studies. Studies in rats (rabbits (6 mg/kg/day) showed no birth defects, however, there was an incr paroxetine during the last trimester of pregnancy and continuing through la the first trimester has been associated with increased risk of congenital an newborn. Some newborns whose mothers took paroxetine in the third trime requiring prolonged hospitalization, respiratory support, and tube feeding. drug, withdrawal effects, or serotonin syndrome. A study showed that babi- late pregnancy have a greater risk of persistent pulmonary hypertension of mothers did not take antidepressants during pregnancy. Mutagenicity: Paroxetine produced no genotoxic effects in a battery of five included the following: bacterial mutation assay, mouse lymphoma mutatio assay, and tests for cytogenetic aberrations in vivo in mouse bone marrow in a dominant lethal test in rats.	rats receiving high doses of paroxetine re was also an increased linear trend for ors, but no drug-related increase in the not known. I reduced pregnancy rates. Irreversible es of 15 mg/kg/day in fertility studies oductive tract of male rats (at doses of (at doses up to 50 mg/kg/day) and ease in pup deaths in rats receiving actation. Therapeutic use of paroxetine in d cardiovascular malformations in the ester have developed complications These may result from toxic effects of the es born to mothers who took SSRIs in f the newborn than babies whose
	Remark Medical conditions aggravated by exposure: Hypersensitivity to material, b disorder, seizure disorder, and severe liver or kidney function impairment	pipolar disorder, major depressive
Short-term effects and Signs & Symptoms of overexposure	Possible eye, skin, gastrointestinal and/or respiratory tract irritation. The usual adult oral dose of Paroxetine is 20 to 50 mg/day. Adverse effects may include agitation, chest pain, fever, chills, confusion, pain, flatulence, muscle pain or weakness, fast or irregular heartbeat, skin constipation, diarrhea, dizziness, dry mouth, headache, sweating, insomni desire, tremor, problems urinating, vomiting, anxiety, and appetite change inhaled, ingested, or in contact with skin. Overdose effects include large pupils, dizziness, sleepiness, confusion, na vomiting, and coma.	congestion, trouble breathing, abdominal rash, unusual tiredness or weakness, ia, nausea, decreased sexual ability or s. Possible allergic reaction to material if ausea, racing heartbeat, trembling,
	Remark The above adverse effects are based on clinical studies.	
Section 12. Eco	ological Information	
Ecological Information	Harmful to activated sludge microorganisms; toxic to daphnids and fish.	

Section 13. Disposal Considerations

Waste Disposal

For internal Apotex waste disposal: Collect in sealed containers and place in appropriate labeled pharmaceutical solid waste class 261A. For external waste disposal: Follow all appropriate safe work procedures and federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies.

Section 14. Transport Information TDG, IATA, IMDG

Not controlled under TDG (Canada).

Not applicable.

Special Provisions for No additional remark.

Transport

UN

Paroxetine hydrochlo	oride			Page Number: 6
Section 15. Other Re	gulatory Informatic	on and Pictogra	ms	
N	IATIONAL FIRE PROTECTIO	ON ASSOCIATION (N	FPA) HAZARD INDEX	
NF NF NF	PA-HEALTH-blue :2- PA-FLAMMABILITY-red :1- PA-REACTIVITY-yellow :0-	Hazardous to health. -Materials that must be -Normally stable.	preheated before ignition c	an occur.
Na Pr As	ational Fire cotection ssociation (U.S.A.)	Health 2	Fire Hazard Reactivity Specific Hazard	
Hazardous Material Information System (U.S.A.)	ealth Hazard 2 ire Hazard 1 eactivity 0 ersonal Protection X Chronic hazard indicator See Section 8	HCS (Hazardous Co (OHSA, U.S.A.) Class: Toxic.	mmunication System)	
DOT (Department of No Transportation) (U.S.A) (Pictograms)	ot a DOT controlled material	(United States).		
EU Classification and R2 Labelling	22- Harmful if ingested. R36/3 eversible effects. R63- Possil	37/38- Irritating to eyes ble risk of harm to the	, respiratory system and ski unborn child. S36- Wear sui	n. R40- Possible risks of table protective clothing.
ADR (European No Agreement of Dangerous goods by Road) (Pictograms)	t controlled under ADR (Euro	ope).		
Other Regulations This and	s product has been classified in the MSDS contains all of the in	n accordance with the ha nformation required by t	zard criteria of the Controlled ne CPR.	Products Regulations (CPR)
Section 16. Other	r Information			
References The Merck Index HSBD & RTECS RxList Monogra MSDS: U. S. Pharmacop	b Database phs peia		alidation date: rear.month) ctober 20, 2010	
Revision date: 7/4/2012.	Apotex Inc. 150 Signet Drive Weston (Toronto), Ontario Canada M9L 1T9 (416) 749-9300			
Notice to Reader				
Continued on Next Pa	age Obtained by Globa	al Safety Management	nc www.alobalsafetynet.com	

Paroxetine hydrochloride

Page Number: 7

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.