

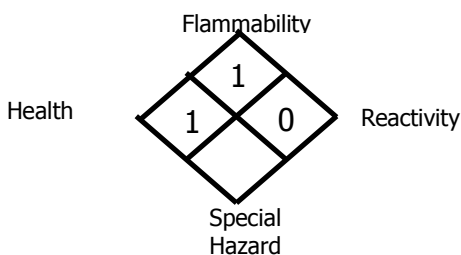
MATERIAL SAFETY DATA SHEET

NADOLOL

NADOLOL

CODE
00601

Health	1
Flammability	1
Reactivity	0
Personal Protection	E



Risk rating

- 0 Minimal Hazard**
- 1 Slight Hazard**
- 2 Moderate Hazard**
- 3 Serious Hazard**
- 4 Severe Hazard**

I GENERAL INFORMATION OF THE MANUFACTURER

COMPANY NAME	Signa, S.A. de C.V.	EMERGENCY PHONE NUMBER	SETIQ 01 800 00 21400 52 (55) 55 59 15 88
COMPLETE ADDRESS	Av. Industria Automotriz #301. Zona Industrial Toluca. C. P. 50071. Toluca, Estado de México.		

II GENERAL INFORMATION OF THE MATERIAL

PRODUCT NAME	Nadolol	CHEMICAL FORMULA	C ₁₇ H ₂₇ N O ₄
CHEMICAL NAME	2,3-Naphthalenediol, 5-(3-((1,1-dimethylethyl)amino)-2-hydroxypropoxy),12,3,4-tetrahydro-2,3-naphthalenediol	CHEMICAL FAMILY	
SYNONYMS	Corgard		

III HAZARDOUS INGREDIENTS IDENTITY

INGREDIENTS NAME	%	CAS	UN
Nadolol	100	42200-33-9	Not applicable

IV PHYSICAL DATA

COLOR	White. Off-white
OLOR	Odorless
APPEARANCE	Solid (Crystalline powder)
MOLECULAR WEIGHT	309.4
GRAVITY DENSITY(WATER = 1)	Not available
VAPOR DENSITY(AIR = 1)	Not available
FLAMMABLE LIMITS	UPPER Not applicable LOWER Not applicable
VAPOR PRESSURE mmHg@20°C	Not applicable

SOLUBILITY	Easily soluble in cold water. Insoluble in diethyl ether, acetone, benzene, hexane, lipids. Freely soluble in alcohol, propylene glycol. Slightly soluble in chloroform.
BOILING POINT (°C)	Not available
FLASH POINT(°C)	Not available
MELTING POINT(°C)	124-136
AUTOIGNITION TEMPERATURE(°C)	Not available
EVAPORATION RATE (BUTYL ACETATE=1)	Not available
% VOLATILE	Not available

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V FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA	WATER SPRAY	X	DRYCHEMICAL POWDER	X
	FOAM	X	OTHER	Not available
	CO₂			

HEALTH HAZARDOUS COMBUSTION PRODUCTS

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂)

SPECIAL FIRE FIGHTING PROCEDURES AND PERSONAL PROTECTIVE EQUIPMENT

SMALL FIRE: Use Dry chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

UNUSUAL FIRE AND EXPLOSION HAZARDOUS

This material is assumed to be a common combustible. As with all dry powders, it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential build up of static electricity. When heated to decomposition, material emits toxic under fire conditions.

VI REACTIVITY DATA

STABLE	Yes	CORROSIVE	Not available	HAZARDOUS POLYMERIZATION	Will not occur
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UNSTABLE

RADIOACTIVITY

HEALTH HAZARDOUS DECOMPOSITION PRODUCTS

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂)

CONDITIONS TO AVOID

Excess heat. Sensitive to light.

INCOMPATIBILITIES TO AVOID

Not available.

VII HANDLING

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.



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VIII HEALTH DATA

TOXICOLOGICAL INFORMATION	TWA	STEL	IDHL
Oral (LD ₅₀):5300 mg/kg [Rat] Oral (LD ₅₀):3800mg/kg [Mouse] The substance maybe toxic to lungs, heart, upper respiratory tract.	Not available	Not available	Not available

SUBSTANCE CONSIDERED LIKE:					
CANCINOGENICITY	MUTAGENICITY	TERATOGENICITY	OTHER (SPECIFY)	ANTIDOTE	SPECIFY DOSAGE
		Possible			

EFFECTS OF EXPOSURE	ROUTES OF EXPOSURE			
	SKIN	EYES	INHALATION	INGESTION
ACUTE	Hazardous in case of skin contact. May cause skin irritation.	Hazardous in case of eye contact. May cause eye irritation.	Hazardous in case of inhalation. May cause respiratory tract irritation.	Hazardous in case of ingestion. May affect vision (visual disturbances, blurred vision), behavior/central nervous system (antipsychotic, headache, sedation, mental depression progressing to catatonia, hallucinations, slurred speech, dizziness, fatigue, weakness, numbness, disorientation, short term memory loss, decreased performance on neuropsychometric tests, convulsions), respiration (increased airway resistance, cough, nasal stuffiness, pulmonary edema, bronchospasm, cyanosis), cardiovascular system (hypotension, bradycardia, congestive heart failure in sensitive persons). May also cause sweating, tinnitus peripheral vascular insufficiency, facial swelling, dry mouth.
CHRONIC	Ingestion: Prolonged or repeated ingestion may affect behavior/central nervous system, urinary system (kidneys), cardiovascular system, and cause weight loss or weight gain, decreased libido, and other symptoms similar to that of acute ingestion.			
FIRST AID MEASURES	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention . Finish by rinsing thoroughly with running water to avoid a possible infection.	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	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.

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IX SPILL AND LEAK PROCEDURES














SMALL SPILL: 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.

LARGE SPILL: 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.

PERSONAL PROTECTION IN CASE OF A LARGE SPILL: splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

X SPECIAL PROTECTION

Safety glasses
Lab coat
Dust respirator.
Gloves

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XI TRANSPORTATION DATA

No regulated

CLASSIFICATION: CLASS Not applicable SECONDARY RISK
SHIPPING NAME
CLASS
ONU No.
PACKING GROUP
GUIDE No.

XII ECOLOGICAL DATA

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.









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XIII STORAGE

Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistance container.

XIV SPECIAL PRECAUTIONS

							
Oxidizing Material	Biohazardous Infectious Material	Poisonous and Infectious Material Immediate and serious toxic effects	Compressed Gas	Dangerously Reactive Material	Corrosive Material	Material: other toxic effects	Flammable and Combustible Material

XV ADDITIONAL INFORMATION

REFERENCES:
Material Safety data Sheet Nadolol, Science Lab.com

XVI KEY TO ABBREVIATIONS

USER HAS THE SOLE RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THE MATERIALS FOR ANY USE AND THE MANNER OF USE CONTEMPLATED.

CAS	Chemical abstracts service
UN	United Nations number
IDLH	Immediately Dangerous to live and Health
LD50	Lethal dose 50 percent kill
LC50	Lethal concentration 50 percent kill
TWA	Time weighted average
STEL	Short term exposure limit
ppm	parts per million