

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**(-)-Norverapamil**

Print date: 14.06.2012

Product code: 5620

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

(-)-Norverapamil

**Further trade names**

Benzeneacetonitrile, a-[3-[[2-(3,4-dimethoxyphenyl)-ethyl]amino]propyl]-3,4-dimethoxy-a-(1-methylethyl)-, (aS)-

**Synonymes:**

(aS)-a-[3-[[2-(3,4-Dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-a-(1-methylethyl)-benzeneacetonitrile; (-)-Norverapamil; S-Norverapamil

**Chemical characterization ( substance )**

Benzeneacetonitrile, a-[3-[[2-(3,4-dimethoxyphenyl)-ethyl]amino]propyl]-3,4-dimethoxy-a-(1-methylethyl)-, (aS)-

CAS No.: 123931-31-7

**Details of the supplier of the safety data sheet**

Company name:	ABX advanced biochemical compounds		
	Biomedizinische Forschungsreagenzien GmbH		
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**Emergency telephone:** +49 3528 4041 60**SECTION 2: Hazards identification****Route(s) of Entry****Signs and Symptoms of Exposure**

Carcinogenicity (NTP):	Toxicological data are not available.
Carcinogenicity (IARC):	Toxicological data are not available.
Carcinogenicity (OSHA):	Toxicological data are not available.

**Other hazards**

Warning - substance not yet tested completely.

**SECTION 3: Composition/information on ingredients****Substances**

Sum formula:	C <sub>26</sub> H <sub>36</sub> N <sub>2</sub> O <sub>4</sub>
Molecular weight:	440.58

**SECTION 4: First aid measures**

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**Description of first aid measures****After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink large quantities of water. Medical treatment necessary.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**Suitable extinguishing media: Water. alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).**Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal.

**SECTION 7: Handling and storage****Precautions for safe handling****Advice on safe handling**

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible only to authorized persons. Keep container in a well-ventilated place.

**Further information on storage conditions**

Recommended storage temperature:

of °C: -25

up to °C: -15

Protect against: Light.

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Store under (Gas): argon. Nitrogen.

**SECTION 8: Exposure controls/personal protection****Control parameters****Exposure controls****Occupational exposure controls**

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

**Protective and hygiene measures**

Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Form: liquid  
Color: light yellow, light brown

**Test method****Changes in the physical state**

Water solubility: insoluble  
Solubility in other solvents: chloroform, diethyl ether

**SECTION 10: Stability and reactivity**

Stability: Stable  
Possibility of Hazardous Reactions: Will not occur

**Conditions to avoid**

Light.

**Hazardous decomposition products**

Carbon dioxide. Carbon monoxide. nitrogen oxides (NO<sub>x</sub>).

**SECTION 11: Toxicological information****Information on toxicological effects****Additional information on tests**

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**Further information**

Toxicological data are not available.

**SECTION 12: Ecological information****Further information**

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**SECTION 13: Disposal considerations****Waste treatment methods**

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**Advice on disposal**

Waste disposal according to official state regulations.

**Contaminated packaging**

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

**SECTION 14: Transport information****US DOT 49 CFR 172.101****Proper shipping name**

Not a hazardous material with respect to transportation regulations.

**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information****U.S. Regulations****SECTION 16: Other information****Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	1
Physical Hazard:	1
Personal Protection:	C

**NFPA Hazard Ratings**

Health:	1
Flammability:	1
Reactivity:	1
Unique Hazard:	

