

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 **Revision date: 10/03/2018** 

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Verapamil Hydrochloride Product name:

V0118 Product code:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity (Oral) Category 3 **Acute toxicity (Dermal)** Category 3 Acute toxicity (Inhalation) Category 3 Reproductive toxicity Category 1B

Reproductive toxicity (Effects on or via lactation) Additional category for effects on or via lactation

2.2 Label elements

Pictograms or hazard symbols





Signal word Danger

**Hazard statements** H301+H311+H331-Toxic if swallowed, in contact with skin or if inhaled.

H360FD-May damage fertility. May damage the unborn child.

H362-May cause harm to breast-fed children.

**Precautionary statements** P260-Do not breathe dusts or mists.

P280-Wear protective gloves, protective clothing, face protection.

P301+P310+P330-IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. P302+P352+P312+P361+P364-IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before

reuse.

P304+P340+P311-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor.

P308+P313-IF exposed or concerned: Get medical advice or attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

### SECTION 3: Composition/information on ingredients

3.1 Substances

Components: Verapamil Hydrochloride
Percent: >98.0%(HPLC)(T)
CAS RN: 152-11-4

EC-No: 152-11-4 EC-No: 205-800-5

Synonyms: 5-[(3,4-Dimethoxyphenethyl)methylamino]-2-(3,4-dimethoxyphenyl)-2-isopropylvaleronitrile

Hydrochloride C<sub>27</sub>H<sub>38</sub>N<sub>2</sub>O<sub>4</sub>·HCl

# SECTION 4: First aid measures

**Chemical Formula:** 

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get

medical advice/attention.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

# SECTION 5: Firefighting measures

5.1 Extinguishing media

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure

to wear personal protective equipment

# SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

Light-sensitive

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Impervious gloves.

Slightly soluble

Safety goggles. A face-shield, if the situation requires. Eye protection:

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C):

Form: Crystal - Powder Colour: White - Almost white Odour: No data available pH: 5.25 (0.1% aq soln.)

Melting point/freezing point: 145°C

Boiling point/range: No data available Flash point: No data available Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

No data available Lower: No data available Upper: Vapour pressure: No data available. No data available Vapour density: Relative density: No data available Solubility(ies):

[Water] [Other solvents]

Hand protection:

Soluble: Methanol, Ethanol

Insoluble: Ether Partition coefficient: 3.79

n-octanol/water: Autoignition temperature:

No data available Decomposition temperature: No data available No data available **Dynamic Viscosity:** Kinematic viscosity: No data available

No data available 9.2 Other safety information

# SECTION 10: Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability Stable under proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid No data available 10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

### SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute Toxicity: orl-rat LD50:108 mg/kg

ipr-rat LD50:60 mg/kg ivn-rat LD50:16 mg/kg orl-man LDLo:3429 ug/kg

Skin corrosion/irritation:
Serious eye damage/irritation:
Respiratory or skin sensitization:
Germ cell mutagenicity:
No data available
No data available

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: YV8320000

### SECTION 12: Ecological information

# 12.1 Toxicity

Fish: No data available
Crustacea: No data available
Algae: No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

**Log Pow:** 3.79

Soil adsorption (Koc): No data available Henry's Law (PaM ³/mol): No data available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

# SECTION 13: Disposal considerations

# 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

### SECTION 14: Transport information

**14.1 UN number** 2811

14.2 UN proper shipping name

ADR/RID Toxic solid, organic, n.o.s
IMDG/IMO Toxic solid, organic, n.o.s
ICAO/IATA Toxic solid, organic, n.o.s

14.3 Transport hazard class(es)

ADR/RID 6.1: Toxic substance
IMDG/IMO 6.1: Toxic substance
ICAO/IATA 6.1: Toxic substance

14.4 Packaging group

ADR/RID III
IMDG/IMO III
ICAO/IATA III

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**