

SAFETY DATA SHEET

Version: 2

Revision Date: 10/04/18

## SECTION 1: PRODUCT IDENTIFICATION

Verapamil-D7 Hydrochloride **Product Name:** 

ESS0359 Catalog No.:

Product Use: For laboratory research purposes

#### **SECTION 2: HAZARDS IDENTIFICATION**

WHMIS Classification: D1B: Toxic material causing immediate and serious toxic effects. Toxic by ingestion.

**GHS Classification:** Acute toxicity, oral (Category 3)

> Hazardous to the aquatic environment, Acute hazard (Category 2) Hazardous to the aquatic environment, Long-term hazard (Category 2)

**GHS Label elements** 

Pictogram:

Danger Signal word: H301: Toxic if swallowed. Hazard statement: H401: Toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects. Precautionary statement: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash (hands) thoroughly after handling. P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/ face protection. Response statements:

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

No data available.

Other hazards:

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Not available Synonyms: C27H32D7CIN2O4 Formula: Molecular Weight: 498.11 1188265-55-5 CAS No.:

#### **SECTION 4: FIRST AID MEASURES**

General Advice: Consult a physician. Show this SDS, Move out of dangerous area.

Allow the victim to rest in a well-ventilated area. Seek immediate medical attention. If Inhaled:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and In case of skin contact:

non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin

with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold In case of eye contact:

water may be used. Do not use an eye ointment. Seek medical attention.

If swallowed: Do not induce vomiting. Rinse mouth with water. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible

indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

Conditions of flammability: Not flammable or combustible.

Suitable extinguishing media: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full Special protective equipment for firefighters:

protective gear. During a fire, toxic gases may be generated by thermal decomposition or combustion.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides, toxic

chlorides.

No data available. **Explosion data:** 

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Use proper personal protective equipment as indicated in section 8. Personal precautions:

Clean up spills immediately, observing precautions in the Protective Equipment section. Do not let **Environmental precautions:** 

product enter drains.

Sweep up, and then place into a suitable container for disposal. Methods and materials for containment and cleaning up:

**SAFETY DATA SHEET** 

Version: 2

Revision Date: 10/04/18

### SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

Keep away from heat. Keep away from sources of ignition. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation where dust is formed. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice

immediately and show the container or the label. Avoid contact with skin and eyes.

Conditions for safe storage: Keep container tightly closed in a dry and well ventilated place. Ground all equipment containing material. Recommended storage

temperature -20°C.

## **SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended

exposure limits.

Personal protective equipment

Respiratory protection: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode

with emergency escape provisions.

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer

surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Eye protection: Wear safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and body protection: Wear appropriate gloves and clothing to prevent skin exposure.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before break and after the end of work day.

#### **SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

White solid Appearance: Odour: No data available. Odour threshold: No data available. No data available. pH: Melting point/Freezing point: No data available. No data available. Initial boiling point/boiling range: Flash point: No data available. Evaporation rate: No data available. No data available. Flammability (solid; gas): No data available. Lower flammable/explosive limit: Upper flammable/explosive limit: No data available. No data available. Vapour pressure: No data available. Vapour density: DMSO, Methanol, Water Solubility: No data available. Partition coefficient - n-octanol/water: No data available. Autoignition temperature: **Decomposition temperature:** No data available. No data available. Viscosity:

## **SECTION 10: STABILITY & REACTIVITY**

**Chemical stability:** Stable under recommended storage conditions.

Conditions to avoid:

Possibility of hazardous reactions:
Incompatibilities:

No data available.

Strong oxidizing agents.

Hazardous decompositions products: Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides, toxic

chlorides.

## SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Potential health effects: No data available

Inhalation: Toxic if inhaled. May cause respiratory tract irritation.

Skin: Toxic if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation. **Ingestion:** Toxic if swallowed.

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SAFETY DATA SHEET** 

Version: 2

Revision Date: 10/04/18

# SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.

Other adverse effects: Toxic to aquatic life with long lasting effect.

## **SECTION 13: DISPOSAL CONSIDERATION**

**Product:** Dispose in a manner consistent with federal, state, and local regulations.

Contaminated packaging: Dispose of as unused product.

## **SECTION 14: TRANSPORT INFORMATION**

TDG (Canada): UN2811
DOT (US): UN2811
IMDG: UN2811
IATA: UN2811
UN number: UN2811

UN proper shipping name: Verapamil-D7 Hydrochloride, Environmentally hazardous substance, toxic solid, organic compound.

Transport hazard class: 6.1
Packing group: III

**Special precautions:** Ship at room temperature.

## **SECTION 15: REGULATORY INFORMATION**

General: WHMIS CLASS D1B: Toxic material causing immediate and serious toxic effects. Toxic by ingestion.

DSL/NDSL (Canada): This product or a component of this product is listed on the Canadian DSL/NDSL.

TSCA (US): This product is not listed on the US EPA TSCA. ECHA (EU): This product is not listed on the EU ECHA.

## **SECTION 16: OTHER INFORMATION**

#### **Further Information**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Expert Synthesis Solutions shall not be held liable for any damage resulting from handling or from contact with the above product.