Safety Information-
Liquid-based, optical reference material UV12

1. Manufacturer and product information

Reference material type: UV12

Manufacturer: Hellma GmbH & Co. KG
Klosterrunsstr. 5
79379 Müllheim
GERMANY

Telephone: +49 7631 182-0

Safety information compiled on
29th August 2019
by Vanessa Hochhuth

2. Possible dangers

As this liquid-based, optical reference material involves a product and not a dangerous substance, the following information should be regarded as a voluntary customer service.

Hellma optical reference materials are permanently sealed and ready to use. They are regarded as a product according to Article 3 Para. 3 REACH regulation as it is not the chemical composition but the form, surface and design of the optical reference material that is decisive for its function. Accordingly, these optical reference materials do not need to be handled as dangerous substances. In normal use, the user will not come into contact with or be exposed to the substances sealed in the optical reference material unless the cells break. In this case, please see point 4, "First aid in case of incorrect use".

3. Composition

This optical reference material contains ultrapure water.

4. First aid in case of incorrect use

In normal circumstances no special measures need to be taken when using the optical reference material. The liquids are permanently sealed in the quartz glass cells. If, however, the cell does break, avoid all contact with the contents. Each optical reference material contains less than 3 mL liquid. If the cell breaks, carefully wipe away the contents with water and dispose correctly.
If, despite all efforts, you still come into contact with the contents of the optical reference material, observe the following measures:

Inhalation: no special measures necessary.
Swallowing: no special measures necessary.
Skin contact: no special measures necessary.
Contact with eyes: no special measures necessary.

5. Firefighting measures

Due to the minimal volume of the optical reference material, the contents will not increase the danger in case of a fire. The content of the optical reference material is not flammable. Special firefighting measures do not need to be taken.

6. Measures in case of unintentional leakage

The liquids are permanently sealed in the quartz glass cells. If, however, the cells break, carefully wipe away the contents with water and dispose correctly.

7. Handling and storage

The optical reference materials are made of quartz glass and accordingly should be carefully handled to avoid breakage of the cells. Liquid-based, optical reference material may only be touched on the frosted sides or on the cap. Soiling of the optical surfaces leads to altered values which lead to a recertification of the optical reference material. The same applies to scratches in the optical surfaces.

When the optical reference materials are not in use they should be stored in a dust-free place at temperatures of 15 - 30°C, rel. humidity non-condensing, away from light in their original closed case.

The optical reference materials should not be stored at temperatures below 4° C as the cells may crack or break if the contents freezes and expands. This should be particularly observed during transport (e.g. sending in for re-calibration)!

8. Personal protective clothing

In normal use, protective clothing is not necessary.

9. Physical and chemical properties

Appearance:	colourless, clear liquid permanently sealed in a quartz glass cell, content < 3 mL
Boiling point:	100°C
Density:	1,0 g/cm^3

10. Stability and reactivity

Stable under the conditions mentioned above.

11. Toxicology information

Non-toxic.

12. Environmental information

This optical reference material poses no risk to the environment.

13. Disposal instructions

These optical reference materials can be disposed of in household waste. If you don't wish to dispose them yourself, you can return them to Hellma who will correctly dispose of them for you, free of charge.

14. Transport regulations

None

15. Labelling of dangerous substances

As this optical reference material involves a product according to Article 3 Para. 3 REACh regulation and is not a dangerous substance, it does not need to be labelled according to GefStoffV (Hazardous Substances Ordinance). However, please observe standard safety procedures when handling chemicals.

16. Other information

None

Disclaimer:

This safely information is provided voluntarily by Hellma GmbH & Co. KG and does not serve as a safety information leaflet in the sense of the GefStoffV.

This information has been carefully compiled and checked according to sound knowledge and reliable information. However, no liable will be assumed – neither expressed nor implied – for the completeness, correctness or up to datedness of the provided information. Liability for damage resulting from the use or non-use of the provided information is – in so far as this is legally permitted – excluded.