Safety Data Sheet

Company Name	Nippon Sheet Glass, Co. Ltd.
Address	5-8-1 Nishihashimoto, Midori-ku,Sagamihara, Kanagawa 252-5189, JAPAN Information and Telecommunication Device Div.
Telephone	81-42-775-1562
Facsimile	81-42-775-1578

REFERENCE NUMBER: ID-0850-0012-1 Date: June-15-2017

1. PRODUCT NAME ILH (SELFOC® Imaging Lens)

2. COMPOSITION, INFORMATION ON INGREDIENTS

Component	Chemical Name	Content (mol%)	CAS-No.
SiO_2	Silica	60 to 70	7631-86-9
Tl_2O	Thallium Oxide	2 to 10	1314-12-1
	Others	0 to 30	

3. HAZARDS IDENTIFICATION

Hazard description: T, toxic

Information pertaining to particular dangers for human and environment:

R22 Harmful if swallowed.

4. FIRST AID MEASURES

SKIN CONTACT: Wash with water in case sticking cutting, grinding, and polishing fluid or fine particles.

EYE CONTACT: Flush with large amount of water immediately in case getting cutting, grinding, and polishing fluid and contact a medical professional, if it is necessary. Do not rub or scratch your eyes and contact a medical professional in case getting fine particles from dry processing.

INGESTION: Product is not intended to be ingested or eaten. If cutting, grinding, and polishing fluid or fine particles is ingested, rinse mouth with water, drink large amount of water, and vomit and contact a medical professional.

5. FIRE FIGHTING MEASURE

There is no potential for fire or explosion.

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases.

6. ACCIDENTAL RELEASE MEASURES

Treat the accidental release of cutting, grinding, and polishing fluid minimize, and avoid the penetration into the ground and the spillage into the drain system like a sewer. Collect the spilled fluid into an empty can. Comply with state and local regulations for disposal of these products. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the Environmental Protection Agency (EPA).

7. HANDLING AND STORAGE

HANDLING: Use protective equipment to prevent from halation of fine particles, if necessary.

STORAGE: Material should be kept cool and dry.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION, ENGINEERING CONTROLS

In case of dry process: Use the protective cover and prevent fine particles from scattering.

In case of wet process: Found a local ventilation, and prevent fine particles from scattering.
Use dust-proof mask as protective equipment, and dust-protective Goggle, if necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: Clear

Odor: No odor

Specific Gravity: 3.4 to 3.9

Softening Temperature: 490 to 520 degree C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Inert

INCOMPATIBILITY WITH OTHER MATERIALS: No

CONDITION TO AVOID: No

HAZARDOUS DECOMPOSITION: No

HAZARDOUS POLYMERIZATION: No

11. TOXICOLOGICAL INFORMATION

This product is an optical lens consists of Silicate glass and is stable physically and chemically but needs caution when you handle this product because this contains Thallium. All the testing samples, which were powdered into 250mesh, have larger surface area than original product. Thus, they seem to show much higher activity and higher irritation than those before powdering.

ACUTE TOXICITY: LD50 30-50mg/kg (SD rat)

ACUTE DERMAL IRRITATION: Non-irritant, Primary irritation index 0.0

ACUTE EYE IRRITATION: Mild irritant, Maximum group score 10.7

SUBCHRONIC EFFECTS: Not available

CHRONIC EFFECTS/CARCINOGENCITY: Few risk see reference No. 1

MUTANGENCITY: Not available

12. ECOLOGICAL INFORMATION

No data available for this product at this time.

13. DISPOSAL CONSIDERATIONS

Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

14. TRANSPOTAION INFORMATION

Make sure that the container has no damage and prevent the container from impact, inversion, and falling.

15. REGULATORY INFORMATION

Product related hazard information:

Hazard symbols: T Toxic

Risk phrases:

22 Harmful if swallowed

Safety phrases:

13 Keep away from food, drink and animal feeding stuff

45 In case of accident or if you feel unwell, seek medical advice immediately

National Regulations

One component of this product is listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory and Comprehensive Environmental Response, Compensation and Liability.

The component is Thallium Oxide as follows:

Tl2O (CAS-No. 1314-12-1)

Information about limitation of use

For use only by technically qualified individuals.

This product contains thallium and is subject to the reporting requirements of section 313 the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

16. OTHER INFORMATION

Reference No. 1: Mutat Res Vol. 387, No. 1 p.47-53 (1997)

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Nippon Sheet Glass Co., Ltd. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Nippon Sheet Glass Co., Ltd. assumes no legal responsibility for use of or reliance upon this information.