OTTO CHEMIE PVT LTD

MATERIAL SAFETY DATA SHEET

1.Identification **1.1GHS Product identifier** Lysozyme, from chicken egg white powder, ~70000 U/mg Code L 1649 2.Hazard identification 2.1Classification of the substance or mixture Respiratory sensitization, Category 1 2.2GHS label elements, including precautionary statements Pictogram(s) Signal word Danger Hazard statement(s) H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled Precautionary statement(s) Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P284 [In case of inadequate ventilation] wear respiratory protection. P304+P340 IF INHALED: Remove person to fresh Response air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... Storage none Disposal P501 Dispose of contents/container to ... 2.30ther hazards which do not result in classification

none

3.Composition/information on ingredients

| J. ISUBSLAILLES | 1 Jan | 11 14 | THE NAME | |
|------------------------------------|------------------------------------|----------------|----------|---------------|
| Chemical name | Common names and synonyms | | number | Concentration |
| Lysozyme from chicken egg white | Lysozyme from chicken egg white | 12650-88- 3 | none | 100% |
| | | | | |

4.First-aid measures

4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. **4.2Most important symptoms/effects, acute and delayed**

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary no data available

5.Fire-fighting measures 5.1Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2Specific hazards arising from the chemical

no data available 5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available 8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

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 EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. **Respiratory protection**

Wear dust mask when handling large quantities. Thermal hazards

no data available

| 9.Physical and chem | |
|-----------------------|-------------------|
| Physical state | no data available |
| Colour | no data available |
| Odour | no data available |
| Melting point/ | no data available |
| freezing point | |
| Boiling point or | no data available |
| initial boiling point | |
| and boiling range | |
| Flammability | no data available |
| Lower and upper | no data available |
| explosion limit / | |
| flammability limit | |
| Flash point | no data available |
| Auto-ignition | no data available |
| temperature | |
| Decomposition | no data available |
| temperature | |
| рН | no data available |
| Kinematic viscosity | no data available |
| Solubility | no data available |
| Partition coefficient | no data available |
| n-octanol/water (log | |
| value) | |
| | |

Vapour pressure
Density and/orno data available
no data availableRelative density
densityno data available
data availableParticle
characteristicsno data available

10.Stability and reactivity
10.1Reactivity
no data available
10.2Chemical stability
Stable under recommended storage conditions.
10.3Possibility of hazardous reactions no data available
10.4Conditions to avoid no data available
10.5Incompatible materials no data available
10.6Hazardous decomposition products no data available

11.Toxicological information Acute toxicity Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity 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

12.Ecological information 12.1Toxicity

Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available **12.2Persistence and degradability** no data available **12.3Bioaccumulative potential** no data available **12.4Mobility in soil** no data available **12.5Other adverse effects** no data available

13.Disposal considerations 13.1Disposal methods Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

| 14.Transport informatio 14.1UN Number | n | | | | |
|--|---|--|--|--------|-------------------------|
| ADR/RID: Not dangerous | IMDG: Not dangerous | IATA: Not da | nderous | | |
| goods. | goods. | goods. | ingerous | | |
| 14.2UN Proper Shipping | | goods. | | | |
| ADR/RID: unknown | , | | | | |
| IMDG: unknown | | | | | |
| IATA: unknown | | | | | |
| 14.3Transport hazard cl | ass(es) | | | | |
| ADR/RID: Not dangerous | IMDG: Not dangerous | IATA: Not da | Ingerous | | |
| goods. | goods. | goods. | | | |
| 14.4Packing group, if a | | | | | |
| ADR/RID: Not dangerous | | IATA: Not da | ingerous | | |
| goods. | goods. | goods. | | | |
| 14.5Environmental haza | | | | | |
| ADR/RID: no | IMDG: no | IATA: no | | | |
| 14.6Special precautions | s for user | | | | |
| no data available | | | | | |
| | | | | | |
| 14.7Transport in bulk ad | cording to Armex in or w | | o and the iby | - Code | |
| no data available | coording to Annex II of W | | | Code | 10 |
| no data available | C C | | | Code | \mathcal{H} |
| no data available 15.Regulatory informati | on | | | | $\langle \cdot \rangle$ |
| no data available 15.Regulatory informati 15.1Safety, health and e | C C | | | | HR. |
| no data available 15.Regulatory informati | on environmental regulation | s specific fo | r the product | | R |
| no data available 15.Regulatory informati 15.1Safety, health and e | on environmental regulation Common names and | s specific fo CAS number | r the product EC number | | R |
| no data available 15.Regulatory informati 15.1Safety, health and e Chemical name Lysozyme from chicken egg white | on environmental regulation Common names and synonyms Lysozyme from chicken egg white | s specific fo CAS number 12650-88-3 | r the product EC number | | Y. |
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Section 16: Other Information This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations required in handling the product. obligations regarding the use of hazardous products.