TCI EUROPE N.V.

## **SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

| Revi  | sion number: 2  | Revision date: 04/11/2019                           |
|---|---|---|
| SECTION 1: Identification of the su                               | bstance/mixture and of the company/undertaki                | ng  |
| 1.1 Product identifiers   |   |   |
| Product name:   | Gb3-β-ethylazide  |   |
| Product code:   | G0403   |   |
| 1.2 Relevant identified uses of the subs<br>Identified uses:      | tance or mixture and uses advised against Reagents.         |   |
| 1.3 Details of the supplier of the safety Supplier:               | data sheet  |   |
| 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 n                          |   |   |
| This product does not meet the criteri                            | a for classification in any hazard class according to Regul | ation (EC) No 1272/2008                             |
| 2.2 Label elements  |   |   |
| Pictograms or hazard symbols                                      | None  |   |
| Signal word   | No signal word  |   |
| Hazard statements   | None  |   |
|   | None  |   |
| Precautionary statements  | none  |   |
| 2.3 Other hazards   |   |   |
| Results of PBT and vPvB assessmer                                 |   |   |
| PBT:  | Not applicable  |   |
| vPvB:   | Not applicable  |   |
| SECTION 3: Composition/informat                                   | ion on ingredients  |   |
| 3.1 Substances  |   |   |
| Components:   | Gb3-β-ethylazide  |   |
| Percent:  |   |   |
| CAS RN:   | <br>2220267-41-2  |   |
|   |   |   |
| Synonyms:   | Gal $\alpha$ (1-4)Gal $\beta$ (1-4)Glc- $\beta$ -ethylazide |   |
| Chemical Formula:   | C20H35N3O16   |   |
| SECTION 4: First aid measures                                     |   |   |
| 4.1 Description of first aid measures                             |   |   |
| Inhalation:   | Remove victim to fresh air and keep at rest in a position   | n comfortable for breathing. Get medical            |
|   | advice/attention if you feel unwell.                        | -   |
| Skin contact:   | Remove/Take off immediately all contaminated clothing       | g. Rinse skin with water/shower. If skin irritation |
|   | or rash occurs: Get medical advice/attention.               |   |
| Eye contact:  | Rinse cautiously with water for several minutes. Remov      |   |
|   | Continue rinsing. If eye irritation persists: Get medical a |   |
| Ingestion:  | Get medical advice/attention if you feel unwell. Rinse m    | nouth.  |
| Protection of first-aiders:                                       | A rescuer should wear personal protective equipment, s      | such as rubber gloves and air-tight goggles.        |
| <b>4.2 Most important symptoms and effer</b><br>No data available | ts, both acute and delayed                                  |   |

4.3 Indication of any immediate medical attention and special treatment needed No data available

G0403

Gb3-β-ethylazide

| SECTION 5: Firefighting measures  |  |  |  |
|---|--|--|--|
| 5.1 Extinguishing media   |  |  |  |
| Suitable extinguishing media:   | Dry chemical, foam, water spray, carbon dioxide.<br>Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.<br>Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)  |  |  |
| 5.2 Special hazards arising from the<br>substance or mixture                                |  |  |  |
| 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 mea   | asures   |  |  |
| 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<br>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 local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.   |  |  |
| 7.2 Conditions for safe storage, including any incompatibilities                            | Keep container tightly closed. Store in a freezer. Store away from incompatible materials such as oxidizing agents.<br>Heat-sensitive  |  |  |
| 7.3 Specific end use(s)   | No further relevant information available.   |  |  |
| SECTION 8: Exposure controls/per  | sonal protection   |  |  |
| 8.1 Control parameters  | No data available  |  |  |
| 8.2 Exposure controls   | Install a closed system or local exhaust as possible so that workers should not be exposed directly.<br>Also install safety shower and eye bath.   |  |  |
| Respiratory protection:<br>Hand protection:<br>Eye protection:<br>Skin and body protection: | Dust respirator. Follow local and national regulations.<br>Protective gloves.<br>Safety glasses. A face-shield, if the situation requires.<br>Protective clothing. Protective boots, if the situation requires.  |  |  |

## SECTION 9: Physical and chemical properties

| SECTION 9: Physical and chemical         |  |
|--|--|
| 9.1 Information on basic physical and ch |  |
| Physical state (20°C):                   | Solid                                    |
| Odour:                                   | No data available                        |
| pH:                                      | No data available                        |
| Melting point/freezing point:            | No data available                        |
| 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:        |  |
| Lower:                                   | No data available                        |
| Upper:                                   | No data available                        |
| Vapour pressure:                         | No data available.                       |
| Vapour density:                          | No data available                        |
| Relative density:                        | No data available                        |
| Solubility(ies):                         |  |
| [Water]                                  | No data available                        |
| [Other solvents]                         | No data available                        |
| Partition coefficient:                   | No data available                        |
| n-octanol/water:                         |  |
| Autoignition temperature:                | No data available                        |
| Decomposition temperature:               | No data available                        |
| Dynamic Viscosity:                       | No data available                        |
| Kinematic viscosity:                     | No data available                        |
| 9.2 Other safety information             | No data available                        |
| 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 avoidNo data available10.5 Incompatible materialsOxidizing agents

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

## SECTION 11: Toxicological information

| 1.1 Information on toxicological effects |                   |
|--|-------------------|
| Acute Toxicity:                          | 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:                         |                   |
| 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 |
|  |                   |

| CECTION 12, Ecological informat  | lon   |
|--|---|
| SECTION 12: Ecological informati<br>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:   | No data available   |
| Soil adsorption (Koc):   | No data available   |
| Henry's Law (PaM ³/mol):   | No data available   |
| 12.5 Results of PBT and vPvB assess  |   |
| PBT:   | Not applicable  |
| vPvB:  | Not applicable  |
| 12.6 Other adverse effects   | No data available   |
| SECTION 13: Disposal considerat  | ions  |
| 13.1 Waste treatment methods<br>Recycle to process, if possible, Cons  |   |
|  | sult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent<br>quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when  |
| and burn in a chemical incinerator ed  | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when  |
| and burn in a chemical incinerator ed disposing of the substance.  | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when  |
| and burn in a chemical incinerator ed<br>disposing of the substance.   | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when  |
| and burn in a chemical incinerator ed<br>disposing of the substance.<br>SECTION 14: Transport information<br>14.1 UN number  | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when  |
| and burn in a chemical incinerator ed<br>disposing of the substance.<br><u>SECTION 14: Transport information</u><br>14.1 UN number<br>14.2 UN proper shipping name   | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when  |
| and burn in a chemical incinerator ed<br>disposing of the substance.<br><u>SECTION 14: Transport information</u><br>14.1 UN number<br>14.2 UN proper shipping name<br>ADR/RID  | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when          on         Not listed   |
| and burn in a chemical incinerator ed<br>disposing of the substance.<br>SECTION 14: Transport information<br>14.1 UN number<br>14.2 UN proper shipping name<br>ADR/RID<br>IMDG/IMO   | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when          on         Not listed         Not listed         Not listed   |
| and burn in a chemical incinerator ed<br>disposing of the substance.<br><u>SECTION 14: Transport information</u><br>14.1 UN number<br>14.2 UN proper shipping name<br>ADR/RID<br>IMDG/IMO<br>ICAO/IATA   | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when          on         Not listed         Not listed         Not listed   |
| and burn in a chemical incinerator ed<br>disposing of the substance.<br><u>SECTION 14: Transport information</u><br>14.1 UN number<br>14.2 UN proper shipping name<br>ADR/RID<br>IMDG/IMO<br>ICAO/IATA<br>14.3 Transport hazard class(es)  | A puipped with an afterburner and scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations when a scrubber system. Observe all federal, state and local regulations and local regulations when a scrubber system. Observe all federal, state and local regulations and local |
| and burn in a chemical incinerator ed<br>disposing of the substance.<br><u>SECTION 14: Transport information</u><br>14.1 UN number<br>14.2 UN proper shipping name<br>ADR/RID<br>IMDG/IMO<br>ICAO/IATA<br>14.3 Transport hazard class(es)<br>ADR/RID   | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when         On         Not listed         Not listed         Not listed         Not listed         Does not correspond to the classification standard of the United Nations  |
| and burn in a chemical incinerator ed<br>disposing of the substance.<br>SECTION 14: Transport information<br>14.1 UN number<br>14.2 UN proper shipping name<br>ADR/RID<br>IMDG/IMO<br>ICAO/IATA<br>14.3 Transport hazard class(es)<br>ADR/RID<br>IMDG/IMO                                      | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when         On         Not listed         Not listed         Not listed         Does not correspond to the classification standard of the United Nations         Does not correspond to the classification standard of the United Nations  |
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| and burn in a chemical incinerator ed<br>disposing of the substance.<br>SECTION 14: Transport information<br>14.1 UN number<br>14.2 UN proper shipping name<br>ADR/RID<br>IMDG/IMO<br>ICAO/IATA<br>14.3 Transport hazard class(es)<br>ADR/RID<br>IMDG/IMO<br>ICAO/IATA<br>14.4 Packaging group | quipped with an afterburner and scrubber system. Observe all federal, state and local regulations when         On         Not listed         Not listed         Not listed         Does not correspond to the classification standard of the United Nations         Does not correspond to the classification standard of the United Nations  |

14.6 Special precautions for user

14.5 Environmental hazards Marine pollutant

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:                   | 04/11/2019      |

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 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