| Revision: | 09.0 | 09. | 201 |
|-----------|------|-----|-----|

|   | according to 1907/2006/EC, Article 31  |  |  |  |
|---|--|--|--|--|
| Printing date 09.09.2010  |  | Revision: 09.09.2010                             |  |  |
| 1 Identification of substance   |  |  |  |  |
| Product details   |  |  |  |  |
| Trade name  | Triphenylmethane   |  |  |  |
| Stock number:   | A11710, L04018   |  |  |  |
| Manufacturer/Supplier:  | Alfa Aesar GmbH & Co.KG<br>Benzstrasse 3   | E-mail: acat@matthey.com                         |  |  |
|   | D-76185 Karlsruhe / Germany  | E-mail: gcat@matthey.com<br>www.alfa-chemcat.com |  |  |
| Informing department:<br>Emergency information:   | Product safety department.   |  |  |  |
| Emergency information:  | Giftnotruf Universität Mainz / Poison Information Center Mainz<br>www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240   |  |  |  |
|   |  |  |  |  |
| 2 Hazards identification  |  |  |  |  |
| Hazard designation:<br>Information pertaining to particular dangers                           | void   |  |  |  |
| Information pertaining to particular dangers<br>for man and environment<br>GHS label elements | Not applicable<br>Void   |  |  |  |
|   |  |  |  |  |
| 3 Composition/information on ingredient   | S  |  |  |  |
| Chemical characterization:  | Titles wathons (CACH 510 72 3), 1000/  |  |  |  |
| Designation: (CAS#)<br>Identification number(s):<br>EINECS Number:                            | Triphenylmethane (CAS# 519-73-3); 100%   |  |  |  |
| EINECS Number:  | 208-275-0  |  |  |  |
| 4 First aid measures  |  |  |  |  |
| After inhalation  | Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons   | ult doctor if symptoms                           |  |  |
|   | persist  |  |  |  |
| After skin contact  | Seek immediate medical advice.<br>Instantly wash with water and soap and rinse thoroughly.   |  |  |  |
|   | Seek immediate medical advice.   |  |  |  |
| After eye contact<br>After swallowing   | Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment.   |  |  |  |
|   |  |  |  |  |
| 5 Fire fighting measures  |  |  |  |  |
| Suitable extinguishing agents   | Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but n<br>exposed containers.  | nay be used for cooling                          |  |  |
| Special hazards caused by the material, its products of combustion or flue gases:             |  |  |  |  |
| products of combustion or flue gases:   | Can be released in case of fire:<br>Carbon monoxide and carbon dioxide   |  |  |  |
| Protective equipment:   | Wear self-contained breathing apparatus.<br>Wear full protective suit.   |  |  |  |
|   |  |  |  |  |
| 6 Accidental release measures   |  |  |  |  |
| Person-related safety precautions:  | Wear protective equipment. Keep unprotected persons away.<br>Ensure adequate ventilation   |  |  |  |
| Measures for environmental protection:  | Do not allow material to be released to the environment without proper governmen   | ital permits.                                    |  |  |
| Measures for environmental protection:<br>Measures for cleaning/collecting:                   | Collect mechanically   |  |  |  |
| Additional information:   | See Section 7 for information on safe handling<br>See section 8 for information on personal protection equipment.<br>See Section 13 for information on disposal. |  |  |  |
|   | See Section 13 for information on disposal.  |  |  |  |
| 7 Handling and storage  |  |  |  |  |
| Handling  |  |  |  |  |
| Information for safe handling:  | Keep containers tightly sealed.<br>Store in cool, dry place in tightly closed containers.  |  |  |  |
|   | No special precautions necessary if used correctly.  |  |  |  |
| Information about protection against<br>explosions and fires:                                 | No special measures required.  |  |  |  |
| Storage   |  |  |  |  |
| Requirements to be met by storerooms and  | No encola requiremente   |  |  |  |
| containers:<br>Information about storage in one common  | No special requirements.   |  |  |  |
| storage facility:   | Store away from oxidizing agents.  |  |  |  |
| Further information about storage<br>conditions:  | Keep container tightly sealed.   |  |  |  |
|   | Store in cool, dry conditions in well sealed containers.   |  |  |  |
| 8 Exposure controls and personal protection   |  |  |  |  |
| Additional information about design of  |  |  |  |  |
| technical systems:  | Properly operating chemical fume hood designed for hazardous chemicals and har<br>of at least 100 feet per minute.   | ving an average face velocity                    |  |  |
| Components with critical values that require  |  |  |  |  |
| monitoring at the workplace:  | Not required.  |  |  |  |
| Additional information:   | No data  |  |  |  |
| Personal protective equipment<br>General protective and hygienic measures                     | The usual precautionary measures should be adhered to in handling the chemicals  | 3.   |  |  |
|   | Keep away from foodstuffs, beverages and food.<br>Instantly remove any soiled and impregnated garments.<br>Wash hands during breaks and at the end of the work.  | ·  |  |  |
| · · · · ·   | Wash hands during breaks and at the end of the work.   |  |  |  |
| Breathing equipment:<br>Eye protection:   | Use breathing protection with high concentrations.<br>Safety glasses   |  |  |  |
| Body protection:  | Protective work clothing.  |  |  |  |
| 9 Physical and chemical properties:   |  |  |  |  |
| General Information   |  |  |  |  |
| Form:   | Powder   |  |  |  |
| Colour:   | Light brown  |  |  |  |
| Smell:  | Not determined   |  |  |  |
| Change in condition   |  | I.   |  |  |
| Melting point/Melting range:  | 90-94°C (754mm Ha)   |  |  |  |
| Melting point/Melting range:  | 90-94°C (754mm Hg)   | (Contd. on page 2)<br>GB                         |  |  |

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|--|---|
| Trade name TriphenyImethane                                      |   |
| ······································                           |   |
|  | (Contd. of page 1)  |
| Boiling point/Boiling range:<br>Sublimation temperature / start: | 358-359°C<br>Not determined   |
| Flash point:   | Not applicable  |
| Inflammability (solid, gaseous)                                  | Product is not inflammable.   |
| Ignition temperature:  | Not determined  |
| Decomposition temperature:                                       | Not determined  |
| Danger of explosion:   | Product is not explosive.   |
| Critical values for explosion:                                   |   |
| Lower:   | Not determined  |
| Upper:   | Not determined  |
| Steam pressure:  | Not determined  |
| Density at 20°C  | 1.01 g/cm <sup>3</sup>  |
| Solubility in / Miscibility with                                 | Incolubio   |
| Water:   | Insoluble   |
| 10 Stability and reactivity                                      |   |
|  |   |
| Thermal decomposition / conditions to be<br>avoided:             | No decomposition if used and stored according to specifications.  |
| Materials to be avoided:   | Oxidizing agents  |
| Dangerous reactions:<br>Dangerous products of decomposition:     | No dangerous reactions known<br>Carbon monoxide and carbon dioxide  |
|  |   |
| 11 Toxicological information                                     |   |
| Acute toxicity:  |   |
| Primary irritant effect:   | May aquea irritation  |
| on the skin:<br>on the eye:                                      | May cause irritation<br>May cause irritation  |
| Sensitization:   | No sensitizing effect known.  |
| Additional toxicological information:                            | To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.<br>No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA  |
|  | or ACGIH.   |
|  |   |
| 12 Ecological information:                                       |   |
| Additional ecological information:                               |   |
| General notes:   | Generally not hazardous for water.<br>Do not allow material to be released to the environment without proper governmental permits.  |
|  |   |
| 13 Disposal considerations                                       |   |
| Product:   |   |
| Recommendation   | Consult state, local or national regulations for proper disposal.   |
|  | Consult state, local or national regulations for proper disposal.<br>Hand over to disposers of hazardous waste.<br>Must be specially treated under adherence to official regulations.   |
| Uncleaned packagings:  |   |
| Recommendation   | Disposal must be made according to official regulations.  |
| 14 Transport information   |   |
| Land transport ADR/RID and GGVS/GGVE (                           | cross-horder/domestic)  |
| ADR/RID-GGVS/E Class:  | None  |
| Maritime transport IMDG/GGVSea:                                  |   |
| IMDG/GGVSea Class:   | None<br>No  |
| Marine pollutant:  |   |
| Air transport ICAO-TI and IATA-DGR:<br>ICAO/IATA Class:          | None  |
| Transport/Additional information:                                | Not dangerous according to the above specifications.  |
|  | ייטי עמויקטיטעש מטטירעוווק וט וווב מטטיב שבטווטמווטווס.   |
| 15 Regulatory information  |   |
| Designation according to EC guidelines:                          | Observe the normal safety regulations when handling chemicals   |
|  | The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous   |
| Notice of a surfaction   | Materials (GefStoffV).  |
| National regulations   |   |
| Information about limitation of use:                             | For use only by technically qualified individuals.  |
| Water hazard class:  | Generally not hazardous for water.  |
| 16 Other information:  |   |
| Employers should use this information only as                    | a supplement to other information gathered by them, and should make independent judgement of suitability of   |
| this information to ensure proper use and prote                  | a supplement to other information gathered by them, and should make independent judgement of suitability of<br>ect the health and safety of employees. This information is furnished without warranty, and any use of the product<br>ata Sheet, or in combination with any other product or process, is the responsibility of the user.   |
|  |   |
| Department issuing data specification shee<br>Contact:           | t: Health, Safety and Environmental Department.<br>Zachariah Holt   |
| Abbreviations and acronyms:                                      |   |
| ······································                           | Dangerous Goods by Road)<br>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International   |
|  | Transport of Dangerous Goods by Rail)<br>IMDG: International Maritime Code for Dangerous Goods  |
|  | IATA: International Air Transport Association   |
|  | ICAO: International Civil Aviation Organization<br>ICAO: International Civil Aviation Organization  |
|  | GHS: Globally Harmonized System of Classification and Labelling of Chemicals  |
|  | ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)<br>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)<br>IMDG: International Maritime Code for Dangerous Goods<br>IATA: International Maritime Code for Dangerous Goods<br>IATA: International Air Transport Association<br>IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)<br>ICAO: International Aviation Organization<br>ICAO: International Instructions by the "International Civil Aviation Organization" (ICAO)<br>GHS: Globally Harmonized System of Classification and Labelling of Chemicals<br>EINECS: European Inventory of Existing Commercial Chemical Society)<br>GB |
|  | GB-J  |
|  |   |