Revision:	12.12.2012	

SECTION 1: Identification of the substa	noo/mixture and of the company/undertaking
	Ince/Inixture and or the company/undertaking
1.1 Product identifier	
Trade name Stock number:	<u>Streptozotocin</u> J61601
CAS Number:	18883-66-4
FC number	242-646-8
1.2 Relevant identified uses of the substance Identified use:	SU24 Scientific research and development
1.3 Details of the supplier of the safety data s Manufacturer/Supplier:	·
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG A Johnson Matthey Company
	Zeppelinstr. 7b
	76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280
	Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com
	www.alfa.com
Informing department:	Product safety Tel + +049 (0) 7275 988687-0
1.4 Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number) Poison Information Center Mainz
	www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) I	No 1272/2008
GHS08 health hazard	
V	
Carc. 2 H351 Suspected of causing cancer.	
Classification according to Directive 67/548/	EEC or Directive 1999/45/EC
Xn; Harmful	
R40: Limited evidence of a carcinogenic effect Information concerning particular hazards for human and environment:	ct.
for human and environment:	Not applicable
Other hazards that do not result in classification	No information known.
2.2 Label elements	
Labelling according to Regulation (EC) No	The substance is clearlifted and labelled according to the OLD regulation
1272/2008 Hazard pictograms	The substance is classified and labelled according to the CLP regulation. GHS08
Hazard pictograms Signal word	Warning
Hazard statements Precautionary statements	H351 Suspected of causing cancer. P281 Use personal protective equipment as required. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up
······································	P201 Obtain special instructions before use.
	P202 Do not nancie until all safety precautions have been read and understood. P308+P313 IF exposed or concerned: Get medical advice/attention.
	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations
2.3 Other hazards	
Results of PBT and vPvB assessment	
DDT.	Not applicable
PBT: vPvB:	Not applicable. Not applicable.
vPvB:	Not applicable.
vPvB: SECTION 3: Composition/information o	Not applicable.
vPvB: SECTION 3: Composition/information o 3.1 Substances CAS# Designation:	Not applicable.
vPvB: SECTION 3: Composition/information o 3.1 Substances CAS# Designation: Identification number(s):	Not applicable.
vPvB: SECTION 3: Composition/information o 3.1 Substances CAS# Designation:	Not applicable.
vPvB: SECTION 3: Composition/information o 3.1 Substances CAS# Designation: Identification number(s):	Not applicable.
vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures 4.1 Description of first aid measures	Not applicable. on ingredients 18883-66-4 Streptozotocin 242-646-8
vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures	Not applicable. on ingredients 18883-66-4 Streptozotocin 242-646-8 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms
vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures 4.1 Description of first aid measures After inhalation	Not applicable. on ingredients 18883-66-4 Streptozotocin 242-646-8 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.
vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures 4.1 Description of first aid measures	Not applicable. In ingredients 18883-66-4 Streptozotocin 242-646-8 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.
vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures 4.1 Description of first aid measures After inhalation After skin contact After eye contact	Not applicable. In ingredients 18883-66-4 Streptozotocin 242-646-8 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.
vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures 4.1 Description of first aid measures After inhalation After skin contact After swallowing	Not applicable. In ingredients 18883-66-4 Streptozotocin 242-646-8 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.
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vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture	Not applicable. Instantly fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide
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vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: SECTION 6: Accidental release measures	Not applicable. In ingredients 18883-66-4 Streptozotocin 242-646-8 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Instantly effort several minutes under running water. Then consult doctor. Seek medical treatment. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Wear self-contained breathing apparatus. Wear full protective suit.
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vPvB:         SECTION 3: Composition/information of 3.1 Substances         CAS# Designation:         Identification number(s):         EC number:         SECTION 4: First aid measures         A.1 Description of first aid measures         After skin contact         After skin contact         After eye contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture         5.3 Advice for firefighters         Protective equipment:         SECTION 6: Accidental release measures         6.1 Personal precautions, protective equipment and emergency procedures	Not applicable.  In ingredients  18883-66-4 Streptozotocin 242-646-8  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. No further relevant information available.  CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.  If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Wear self-contained breathing apparatus. Wear full protective suit.  Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
vPvB: SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number: SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: SECTION 6: Accidental release measures	Not applicable.  In ingredients  18883-66-4 Streptozotocin 242-646-8  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Wear self-contained breathing apparatus. Wear full protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits
vPvB:         SECTION 3: Composition/information of 3.1 Substances         CAS# Designation:         Identification number(s):         EC number:         SECTION 4: First aid measures         A1 Description of first aid measures         After skin contact         After swallowing         4.1 Description of first aid measures         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture         5.3 Advice for firefighters         Protective equipment:         SECTION 6: Accidental release measure         6.1 Personal precautions, protective equipment and emergency procedures         6.2 Environmental precautions:	Not applicable.  In ingredients I8883-66-4 Streptozotocin 242-646-8  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. No further relevant information available.  CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Wear self-contained breathing apparatus. Wear full protective suit.  Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
vPvB:         SECTION 3: Composition/information of 3.1 Substances CAS# Designation: Identification number(s): EC number:         SECTION 4: First aid measures After rescalation         After skin contact         After skin contact         After eye contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture         5.3 Advice for firefighters Protective equipment:         SECTION 6: Accidental release measure 6.1 Personal precautions, protective equipment and emergency procedures         6.2 Environmental precautions:         6.3 Methods and material for containment and cleaning up:	Not applicable.  In ingredients  18883-66-4 Streptozotocin 242-646-8  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Wear self-contained breathing apparatus. Wear full protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits
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## Safety data sheet according to 1907/2006/EC, Article 31

	according to 1907/2006/EC, Article 31
rinting date 02.07.2013	Revision: 12.12.20
ade name Streptozotocin	
	See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
	See Section 13 for information on disposal.
SECTION 7: Handling and storage	
7.1 Precautions for safe handling	Keep containers tightly sealed. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	No information known.
7.2 Conditions for safe storage, including an Storage	iy incompatibilities
Requirements to be met by storerooms and containers:	Store in freezer (-20°C).
Information about storage in one common storage facility:	Store away from oxidizing agents.
	Do not store together with acids. Store away from strong bases.
	Protect from heat. Store away from water.
Further information about storage conditions:	This product is hygroscopic.
	Store under dry inert gas. Store in freezer (-20°C).
	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water.
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/persona	al protection
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face veloc
	of at least 100 feet per minute.
8.1 Control parameters Components with critical values that require	; The product does not contain any relevant quantities of materials with critical values that have to be marity-
monitoring at the workplace: Additional information:	The product does not contain any relevant quantities of materials with critical values that have to be monitore at the workplace. No data
8.2 Exposure controls	
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food.
	Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments.
	Instantly remove any solid and impregnated garments. Wash hands during breaks and at the end of the work. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations.
Breathing equipment: Protection of hands:	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition.
Meterial of slaves	Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Material of gloves Penetration time of glove material	Impervious gloves Not determined
Eye protection: Body protection:	Safety glasses Protective work clothing.
SECTION 9: Physical and chemical pro	perties
9.1 Information on basic physical and chemi General Information	cal properties
Appearance: Form:	Powder
Colour: Smell:	White to off-white Not determined
Odour threshold:	Not determined.
pH-value: Change in condition	Not applicable.
Melting point/Melting range: Boiling point/Boiling range:	121 °C Not determined
Sublimation temperature / start: Inflammability (solid, gaseous)	Not determined Not determined.
Ignition temperature: Decomposition temperature:	Not determined Not determined
Self-inflammability: Critical values for explosion:	Not determined.
Lower: Upper: Storm personalized	Not determined Not determined
Steam pressure: Density Balativa density	Not applicable. Not determined
Relative density Vapour density Evapour density	Not determined. Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water: Partition coefficient (n-octanol/water): Viscosity	Soluble Not determined.
Viscosity: dynamic: kinematic:	Not applicable. Not applicable.
9.2 Other information	Not applicable. No further relevant information available.
SECTION 10: Stability and reactivity	
10.1 Reactivity 10.2 Chemical stability	No information known.
Thermal decomposition / conditions to be	Stable under recommended storage conditions.
avoided: 10.3 Possibility of hazardous reactions	No decomposition if used and stored according to specifications. No dangerous reactions known
10.5 Incompatible materials:	Acids (Contd. on page
	DE/E

## Safety data sheet according to 1907/2006/EC, Article 31

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Trade name Streptozotocin	
10.6 Hazardous decomposition products:	Water/moisture (Contd. of page 2) Oxidizing agents Bases Heat Carbon monoxide and carbon dioxide
	Nitrogen oxides (NOx)
SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product.
classification: Skin irritation or corrosion: Eye irritation or corrosion: Sensitization: Germ cell mutagenicity:	No data May cause irritation May cause irritation No sensitizing effect known. The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for components in this
Carcinogenicity: Reproductive toxicity:	product. Suspected of causing cancer. IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals. NTP-R: Reasonably anticipated to be a carcinogen: limited evidence from studies in humans or sufficient evidence from studies in experimental animals. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/ or neoplastic data for this product. The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for components in
	this product.
Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single exposure: Aspiration hazard: Additional toxicological information:	No effects known. No effects known. No effects known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
SECTION 12: Ecological information	
12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil Additional ecological information:	No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available.
General notes: 12.5 Results of PBT and vPvB assessment	Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Avoid transfer into the environment.
PBT: vPvB: 12.6 Other adverse effects	Not applicable. Not applicable. No further relevant information available.
SECTION 13: Disposal considerations	
13.1 Waste treatment methods Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
Uncleaned packagings: Recommendation: Recommended cleaning agent:	Disposal must be made according to official regulations. Water, if necessary with cleaning agent.
SECTION 14: Transport information	
UN-Number ADR, IMDG, IATA	UN3077
14.2 UN proper shipping name ADR IMDG, IATA	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Streptozotocin) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Streptozotocin)
14.3 Transport hazard class(es) ADR	
	9 (M7) Miscellaneous dangerous substances and articles.
	9
Class Label IATA	9 Miscellaneous dangerous substances and articles. 9
Class	9 Miscellaneous dangerous substances and articles.
Label Packing group	9
Packing group ADR, IMDG, IATA	III (Contri en page 4)
L	(Contd. on page 4) DE/E

#### Trade name Streptozotocin (Contd. of page 3) 14.5 Environmental hazards: Special marking (ADR): Special marking (IATA): Symbol (fish and tree) Symbol (fish and tree) 14.6 Special precautions for user Kemler Number: Warning: Miscellaneous dangerous substances and articles. 90 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: ADR Excepted quantities (EQ): E1 5 kg 3 E Limited quantities (LQ) Transport category Tunnel restriction code UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. UN "Model Regulation": (Streptozotocin), 9, III

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regula Australian Inventory of Chemical	tions/legislation specific for the substance or mixture
Substances	Substance is not listed.
Standard for the Uniform Scheduling of Drugs and Poisons	Substance is not listed.
National regulations Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.
Water hazard class: Other regulations, limitations and prohibitive ELINCS (European List of Notified Chemical	
Substances) Substances of very high concern (SVHC)	Substance is not listed.
according to REACH, Article 57 REACH - Pre-registered substances 15.2 Chemical safety assessment:	Substance is not listed. Substance is listed. A Chemical Safety Assessment has not been carried out.
SECTION 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

# 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 protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet: Health, Safety and Environmental Department. Abbreviations and acronyms: Health, Safety and Environmental Department. RID: Rejement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Raid) IMDC: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal dose, 50 percent DE/E –

DE/E