	according to 1907/2006/EC, Article 31	
nting date 02.07.2013	Revisio	on: 13.06.
SECTION 1: Identification of the sub	bstance/mixture and of the company/undertaking	
1.1 Product identifier Trade name	Hexafluorosilicic acid, 35% w/w aq. soln	
Stock number:	L14829	
1.2 Relevant identified uses of the substa Identified use:	ance or mixture and uses advised against. SU24 Scientific research and development	
	·	
1.3 Details of the supplier of the safety d 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.alta.com	
Informing department: 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	
	Poison Information Cénter Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240	
SECTION 2. Userando identification		
SECTION 2: Hazards identification 2.1 Classification of the substance or mit	ivturo	
Classification according to Regulation (E	EC) No 1272/2008	
GHS05 corrosion		
Skin Corr. 1B_H314_Causes severe skin bu		
Classification according to Directive 67/5	548/EEC or Directive 1999/45/EC	
R34: Causes burns.		
Information concerning particular hazard for human and environment:	ds	
for human and environment:	The product has to be labelled due to the calculation procedure of the "General Classification gui preparations of the EU" in the latest valid version.	deline for
Other hazards that do not result in classification	No information known.	
2.2 Label elements		
Labelling according to Regulation (EC) N	No The product is close if a day dishelled according to the CLD permutation	
1272/2008 Hazard pictograms	The product is classified and labelled according to the CLP regulation. GHS05	
Signal word	Danger	
Hazard-determining components of labelling:	hexafluorosilicic acid	
Hazard statements	H314 Causes severe skin burns and eve damage.	
Precautionary statements	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.	. Rinse sk
	with water/shower.	
	with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	with water/shower. P305+P351+P38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up.	lenses, if
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2.3 Other hazards Results of PBT and vPvB assessment	with water/shower. P305+P351+P38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up.	lenses, if
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Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/informatic 3.2 Mixtures Dangerous components: CAS: 16961-83-4 EINECS: 241-034-8 Additional information Non-Hazardous Ingredients CAS: 7732-18-5 EINECS: 231-791-2 SECTION 4: First aid measures General information After skin contact After skin contact After swallowing 4.2 Most important symptoms and effect 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	with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/interr regulations. Not applicable. Not applicable. on on ingredients Skin Corr. 1B, H314 None known. Skin Corr. 1B, H314 None known. Skin Corr. 1B, H314 Step locked up: Skin Corr. 1B, H314 None known. Skin Corr. 1B, H314 None known. Skin Corr. 1B, H314 None known. Skin Corr. 1B, H314 Step locked up effect on the system and easy the product. Skin Corr. 1B, H314 None known. Step locked up effect on the system and easy the system and the system and the system and the system and easy the system and	lenses, if national
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Revision: 13.06.2011

(Contd. of page 1)

Trade name Hexafluorosilicic acid, 35% w/w aq. soln

SECTION 6: Accidental release measures

SECTION 6: Accidental release measure	es
6.1 Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to item 13.
Prevention of secondary hazards: 6.4 Reference to other sections	No special measures required. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
SECTION 7: Handling and storage	
7.1 Precautions for safe handling	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	The product is not flammable
7.2 Conditions for safe storage, including an	
Storage Requirements to be met by storerooms and	
containers:	No special requirements.
Information about storage in one common storage facility: Further information about storage	Water reacts with many metals to give hydrogen, often violently. Water also reacts violently with many reactive organic and inorganic chemicals.
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.
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 velocity of at least 100 feet per minute.
8.1 Control parameters Components with critical values that require monitoring at the workplace: Additional information:	Not required. 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. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.
Breathing equipment: Protection of hands:	Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations. 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 Eye protection:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection
Body protection:	Protective work clothing.
SECTION 9: Physical and chemical pro	perties
9.1 Information on basic physical and chemi	
General Information Appearance:	
Form:	Liquid
Colour: Smell:	Colourless Not determined
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 108 °C Not determined
Inflammability (solid, gaseous) Ignition temperature:	Not applicable. Not determined
Decomposition temperature: Self-inflammability:	Not determined Product is not selfigniting.
Danger of explosion:	Product is not sellighting. Product is not explosive.
Critical values for explosion:	
Lower: Upper:	Not determined Not determined
Steam pressure at 20 °C: Density at 20 °C	23 hPa 1.32 g/cm ³
Relative density	Not determined.
Vapour density Evaporation rate	Not determined. Not determined.
Solubility in / Miscibility with	
Water: Partition coefficient (n-octanol/water):	Not miscible or difficult to mix Not determined.
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Revision: 13.06.2011

rrinting date 02.07.2013	Revision: 13.06.20
rade name Hexafluorosilicic acid, 35% v	-
Viscosity:	(Contd. of page
dynamic: kinematic:	Not determined. Not determined.
Solvent content: Organic solvents:	0,0 %
9.2 Other information	No further relevant information available.
SECTION 10: Stability and reactivity	
10.1 Reactivity 10.2 Chemical stability Thermel decomposition (conditions to be	No information known. Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions	No decomposition if used and stored according to specifications. Water reacts violently with alkali metals.
10.5 Incompatible materials:	Reacts with alkaline earth metals Water reacts with many metals to give hydrogen, often violently. Water is also incompatible with many reactive
10.6 Hazardous decomposition products:	organic and inorganic chemicals. Hydrogen fluoride Silicon oxide
SECTION 11: Toxicological information	
11.1 Information on toxicological effects Acute toxicity:	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of
	esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components this product.
LD/LC50 values that are relevant for classification: Skin initiation or correction:	No data
Skin irritation or corrosion: Eye irritation or corrosion: Sensitization:	Causes severe skin burns. Causes serious eye damage. No sensitizing effect known.
Germ cell mutagenicity: Carcinogenicity:	No sensitizing effect known. No effects known. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms
Reproductive toxicity:	its carcinogenicity in humans and/or animals.
Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single	No effects known.
exposure: Aspiration hazard:	No effects known. No effects known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Corrosive
SECTION 12: Ecological information	
12.1 Toxicity Aquatic toxicity:	No further relevant information available.
12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil	No further relevant information available. No further relevant information available. No further relevant information available.
Additional ecological information: General notes:	Do not allow product to reach ground water, water bodies or sewage system.
	Do not allow material to be released to the environment without proper governmental permits. Water hazard class 2 (Self-assessment): hazardous for water. Danger to drinking water if even small quantities leak into soil. Avoid transfer into the environment.
12.5 Results of PBT and vPvB assessment PBT:	Not applicable.
vPvB: 12.6 Other adverse effects	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.
Uncleaned packagings:	Consult state, local or national regulations for proper disposal.
Recommendation:	Disposal must be made according to official regulations.
SECTION 14: Transport information	
ADR, IMDG, IATA 14.2 UN proper shipping name	UN1778
ADR IMDG, IATA	1778 FLUOROSILICIC ACID FLUOROSILICIC ACID
14.3 Transport hazard class(es) ADR	
(A)	
Class	8 (C1) Corrosive substances.
Label IMDG, IATA	8
Class Label	8 Corrosive substances. 8
	(Contd. on pag DE/

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

	according to 1907/2006/EC, Article 31			
Printing date 02.07.2013	Revision: 13.06.2011			
Trade name Hexafluorosilicic acid, 35% w/w aq. soln				
	(Contd. of page 3)			
Packing group ADR, IMDG, IATA	11			
14.5 Environmental hazards: Marine pollutant:	No			
14.6 Special precautions for user Kemler Number:	Warning: Corrosive substances. 80			
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): Limited quantities (LQ) Transport category Tunnel restriction code	E2 1L 2 E			
UN "Model Regulation":	UN1778, FLUOROSILICIC ACID, 8, II			
SECTION 15: Regulatory information 15.1 Safety, health and environmental regul Australian Inventory of Chemical Substance All ingredients are listed. Standard for the Uniform Scheduling of Dru				
None of the ingredients is listed.				
National regulations Information about limitation of use: Classification according to VbF:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals. Not applicable			
Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water. Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical Substances)				
None of the ingredients is listed.	Substances			
Substances of very high concern (SVHC) ac	cording to REACH, Article 57			
None of the ingredients are listed.				
REACH - Pre-registered substances				
All ingredients are listed. 15.2 Chemical safety assessment:	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 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. Relevant phrases H314 Causes severe skin burns and eye damage. Relevant phrases H314 Causes burns. Department issuing data specification sheet: Halth, Safety and Environmental Department. RiD: Regenerations and acronyms: Rid Causes burns. Department issuing data specification sheet: Halth, Safety and Environmental Department. RiD: Regeneration is for a specification sheet: Halth, Safety and Environmental Department. Rid: Rid: Regeneration is for a specification sheet: Halth, Safety and Environmental Department. Rid: Rid: Rid: Rid: Rid: Rid: Rid: Rid:				
	DE/E			