Revision:	24.	08.	201	1

Printing date 24.08.2010	according to 1907/2000/EC, Article ST	Revision: 24.08.2010
1 Identification of substance		
Product details		
Trade name	Bis(2,2,2-trifluoroethyl)amine	
Stock number:	L16709	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3	E-mail: gcat@matthey.com
	D-76185 Karlsruhe / Germany	E-mail: gcat@matthey.com www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department.	
Lineigency mormation.	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:		
Ū	C Corrosive	
Information pertaining to particular dangers		
for man and environment	R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R 34 Causes burns.	
GHS label elements	Danger	
	H314 - Causes severe skin burns and eye damage.	
	Warning	
	H302 - Harmful if swallowed.	
	H312 - Harmful in contact with skin. H332 - Harmful if inhaled.	
Prevention: Response:	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all c	.
	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all c with water/shower.	ontaminated clothing. Rinse skin
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minu present and easy to do. Continue rinsing.	utes. Remove contact lenses, if
Storage:	P405 Store locked up.	ollinternational regulations
Disposal:	P501 Dispose of contents/container in accordance with local/regional/nation	nai/international regulations.
3 Composition/information on ingredients	S	
Chemical characterization: Designation: (CAS#)	Bis(2,2,2-trifluoroethyl)amine (CAS# 407-01-2): 100%	
Identification number(s): EINECS Number:	206-978-7	
EINECS Number:	200-976-7	
4 First aid measures		
General information After inhalation	Instantly remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm	. Consult doctor if symptoms
	persist. Seek immediate medical advice.	
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact	Rinse opened eye for several minutes under running water. Then consult do	octor.
After swallowing	Seek immediaté medical advice.	
5 Fire fighting measures		
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or al	cohol-resistant foam.
products of combustion or flue gases:	Can be released in case of fire:	
	Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)	
Protective equipment:	Hydrogen fluoride (HF) Wear self-contained breathing apparatus.	
	Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Measures for environmental protection:	Do not allow material to be released to the environment without proper gove	ernmental permits.
Measures for cleaning/collecting:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal Use neutralizing agent.	binders, sawdUSt).
	Dispose of contaminated material as waste according to item 13.	
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment.	
	See Section 13 for information on disposal.	
7 Handling and storage		
Handling		
Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.	
Information about protection against	Ensure good ventilation/exhaustion at the workplace.	
explosions and fires:	Keep ignition sources away - Do not smoke.	
Storage Requirements to be met by storerooms and		
containers: Information about storage in one common	No special requirements.	
storage facility:	Store away from oxidizing agents.	
Further information about storage 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 the	eir assistants.
		(Contd on page 2)

Trade name Bis(2,2,2-trifluoroethyl)amine

(Contd. of page 1)
tion
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity
of at least 100 feet per minute.
Not required. No data
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. 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.
Not determined Safety glasses Tightly sealed safety glasses.
Face protection
Protective work clothing.
Liquid
Colourless Pale yellow
Not determined
Not determined
70-71°C Not determined
Not determined
Not determined
Not determined
Product is not explosive.
Not determined
Not determined 1.1 g/cm ³
No decomposition if used and stored according to specifications.
Oxidizing agents No dangerous reactions known
Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)
Hydrogen fluoride
Corrosive effect on skin and mucous membranes. Strong corrosive effect.
No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
Danger by skin resorption.
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Water hazard class 1 (Self-assessment): slightly hazardous for water.
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Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.
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Revision: 24.08.2010

14 Transport information Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) ADB/RID-GGVS/F Class: 8 (C7) Corrosive substances. 90 2735 Packaging group: III UN-Number: 2735 Designation of goods: 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Bis(2.2.2-trifluoroethyl)amine) Limited quantities (LO) LGY Maritime transport MDG/GGVSes: 8 Correct technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (Bis(2.2.2-trifluoroethyl)amine) Air transport ICAO-TI and IATA-DGR: 8 Correct technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (Bis(2.2.2-trifluoroethyl)amine) Air transport ICAO-TI and IATA-DGR: 8 Correct technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (Bis(2.2.2-trifluoroethyl)amine) Air transport ICAO-TI and IATA-DGR: 8 Correct technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (Bis(2.2.2-trifluoroethyl)amine) UN YMMER 8 Packaging group: 8 Label 8 Correct technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (Bis(2.2.2-trifluoroethyl)amine) UN YMADER 8 Packaging group: 9	-	
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