Revision: 04.02.2011

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1 Identification of the substance/mixture and of the company/undertaking				
Product identifier Trade name	5-Amino-1,3-dimethylpyrazole			
Stock number: Relevant identified uses of the substance or	A12980, L06838 mixture and uses advised against			
Sector of Use Details of the supplier of the safety data she				
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com			
Informing department: Emergency telephone number:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240			
2 Hazards identification				
Classification of the substance or mixture Classification according to Regulation (EC) I	No 1272/2008			
GHS07				
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation				
STOT SE 3 H335 May cause respiratory irritat Classification according to Directive 67/548/ Xi; Irritant				
R36/37/38: Irritating to eyes, respiratory syste	em and skin.			
Labelling according to Regulation (EC) No 1272/2008	The substance is classified and labelled according to the CLP regulation.			
Hazard pictograms	< <u>1</u> >			
Simplused	GHS07			
Signal word Hazard statements	Warning H315 Causes skin irritation. H319 Causes serious eye irritation.			
Precautionary statements	H335 May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if			
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.			
	P321 Specific treatment (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international			
Other hazards Results of PBT and vPvB assessment PBT: vPvB:	regulations. Not applicable. Not applicable.			
3 Composition/information on ingredient Chemical characterization: Substances (CAS#) Designation:	s 5-Amino-1,3-dimethylpyrazole (CAS# 3524-32-1)			
4 First aid measures				
Description of first aid measures After inhalation	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 After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. Seek immediate medical advice.			
5 Firefighting measures				
Extinguishing media Suitable extinguishing agents Special hazards arising from the substance	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.			
or mixture	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)			
Advice for firefighters Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.			
6 Accidental release measures				
Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.			
Environmental precautions: Methods and material for containment and	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits.			
cleaning up: Reference to other sections	Ensure adequate ventilation. 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 Precautions for safe handling	Keep containers tightly sealed.			
	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.			
	(Contd. on page 2)			

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

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Information about protection against explosions and iffee controls and iffee controls are storage, including any incompatibilities meaning of the storage in one common storage haulty: Thermation about storage in one common storage haulty: Specific and use(s) Beginter and about storage in one common storage haulty: Specific and use(s) Beginter and about storage in one common storage haulty: Specific and use(s) Beginter and use(s) Control parameters Components and use(s) Beginter and use(s) Beginter and use(s) Beginter and use(s) Beginter and use(s) Beginter and use(s) Control parameters Beginter and use(s) Beginter and use(s) Beginter and use(s) Beginter and use(s) Beginter and use(s) Beginter and use(s) Control parameters Beginter and use(s) Beginter and u			
Information about profession against Keep ignition sources areay - Do not smoke. Conditions for all storage incluing any incompatibilities Brange Brand Bran	Trade name 5-Amino-1,3-dimethylpyrazo		
Storge Storge in one common continues: Store sawy from valids: Partner information about storage Store sawy from valids: Store sawy from valids: Store sawy from valids: Components with circle values that require Not start Additional from values: Not start Control samout controls	explosions and fires:		(Contd. of page 1)
Information about storage in one common storage tracking agents. Further information about storage Specific on usefo) Store any from watter. Specific on usefo) Store any from watter and adding agents. Specific on usefo) Store any from watter adding agents. Store adding agents adding agents. Store adding agents adding	Storage Requirements to be met by storerooms and containers:		
Purchase Production about storage This products storage Specific end use(s) This products storage status and storage storage status and storage	Information about storage in one common storage facility:	Store away from water.	
# Exposure controls/personal protection Additional information about design of technical systems. Property operaging chemical turne hood designed for hazardous chemicals and having an average face velocity of technical systems. Control parameter: Control parameter: Velocity operaging chemical turne hood designed for hazardous chemicals and having an average face velocity of design of the workplace. Additional information: No data Exposure corroris No data Breathing equipment: The usual precautionary measures should be adhered to in handling the chemicals. Mask hands during breaks and at the first of the work. Average away from footschift, beverages and food memory. Breathing equipment: Average away from footschift, beverages and food memory. Body protection: Protection Protection: Protection Protection: Protection Protection: Crystallie proveder Order: Crystallie proveder Order: Not determined. Order: Not determined. Order: Not determined. Information on basic physical and chemical properties Not determined. Information on basic physical and chemical properties Not determined.		This product is hygroscopic.	
Additional information about design of technical systems: Property operating chemical tume hood designed for hazardous chemicals and having an everage face velocity d'ai least "Do task per mause." Components with critical values that require monitoring at the worksize: Not neglined. September 2010 Not neglined. September 2010 Not neglined. General protective and hygienic measures General protective and hygienic measures. The usual procentiving, peverage and food. Breathing equipment: Las breathing protection with hybi concentrations. Explosure controls Party controls By protection: Party controls By protection: Party controls By protection: Crystalline protection with hybi concentrations. By protection: Crystalline proveder Octour threshold: Not determined. Order threshold: Not determined. Operative: Volumented. Operative: Not determined. By protection: Party controls Physical and chemical properties Protection and protection with hybi contentrations. Control: Volumented. Other threshold: Not determined. Other thybisition anage: Not determined.		No further relevant information available.	
Components with critical values that requires Motionumed. Motionumed. Personal protective and hygienic measure General protective and hygienic measure Breathing equipment: Lyse breathing protection with high concentrations. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat matching of the second at the original the work. State y disease Broat the second at the original the work. State y disease Broat the second at the work. State y disease Broat the second at the work cluthing. Decent the second at the second at the work cluthing. Decent the second at the second at the second at the work. State y disease Broat the second at the se	Additional information about design of technical systems:		rage face velocity
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By protection: Sate of plans gly moduly multified concentrations. Body protection: Face protection Physical and chemical properties Information on basic physical and chemical properties Information on basic physical and chemical properties Information on basic physical and chemical properties Appearance: Crystalline powder Odour threshold: Not determined Description: Crystalline powder Colour: Yelby Odour threshold: Not determined Description: 72-77°C Boiling point/Melting range: 72-77°C Boiling point/Melting range: 72-77°C Boiling point/Melting range: 72-77°C Boiling point/Melting range: 80°C Inflammability (solid, gaseous) Not determined Jupiction the perature: Not determined Description temperature: Not determined Description temperature: Not determined Description temperature: Not determined Upper: Not determined Upper: Not determined Upper: Not determined Steam preseure: Not determined	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.	
Body protection: Protective work clothing. 9 Physical and chemical properties hormation on basic physical and chemical properties Colour: Crystalline powder Colour: Yellow Portion: Crystalline powder Colour: Yellow Dodow threshold: Not determined. PH-value: Not applicable. Obdow threshold: Not determined. PH-value: Not determined. Balling point/Meiling range: 72-77°C Boiling point/Meiling range: 80°C Inflammability (colid, gaseous) Not determined Basic point/Meiling range: Not determined Decomposition temporature: Not determined Decomposition temporature: Not determined Decomposition temporature: Not determined Upper: Not determined Vertex: Not determined Vertex: Not determined		Safety glasses	
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Change in condition 72-77°C Boiling point/Boiling range: Not determined Sublimation temperature/start Not determined Inflammability (solid, gaseous) Not determined Ignition temperature: Not determined Decomposition temperature: Not determined Bell-inflammability: Not determined Decomposition temperature: Not determined Danger of explosion: Product is not explosive. Critical values for explosion: Product is not explosive. Critical values for explosion: Not determined Upper: Not determined Upper: Not determined Upper: Not determined Vapour density Not determined. Viscosity: No	Information on basic physical and chemical General Information Appearance: Form: Colour: Smell:	Crystalline powder Yellow Not determined	
Flash point: 88°C Inflammability (solid, gaseous) Not determined. Ignition temperature: Not determined Decomposition temperature: Not determined Self-inflammability: Not determined Danger of explosion: Product is not explosive. Critical values for explosion: Not determined Lower: Not determined Upper: Not determined Bensity Not determined Relative density Not determined. Exaporation rate Not applicable. Density Not determined. Kinematic: Not applicable. Exaporation rate Not applicable. Segregation coefficient (n-octanol/water): Not determined. Viscosity: Viscosity: dynamic: Not applicable. Not applicable. Not applicable. Other information No turber relevant information available. 10 Stability and reactivity Reactivity Reactivity Composition / conditions to be avoided: Possibility of hazardous reactions No decomposition if used and stored according to specifications. No danger	Change in condition Melting point/Melting range: Boiling point/Boiling range:	72-77°C Not determined	
Ignition temperature: Not determined Decomposition temperature: Not determined Self-inflammability: Not determined. Danger of explosion: Product is not explosive. Critical values for explosion: Not determined. Upper: Not determined. Density Not determined. Relative density Not determined. Vapour density Not determined. Vapour density Not determined. Vapour density Not determined. Viscosity: Not applicable. Not generation coefficient (n-octanol/water): Not determined.			
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Critical values for explosion: Lower: Upper: Not determined Not determined Steam pressure: Not determined Density Not determined. Walative density Not determined. Vapour density Not applicable. Segregation coefficient (n-octanol/water): Not determined. Viscosity: dynamic: dynamic: Not applicable. kinematic: Not applicable. Other information No further relevant information available. 10 Stability and reactivity Reactivity Chemical stability No decomposition if used and stored according to specifications. Possibility of hazardous reactions No deagerous reactions known Incompatible materials: Oxidizing agents Vater/mosture Carbon morexide and carbon dioxide Notrological information Information on to	Self-inflammability:		
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Density Not determined. Relative density Not determined. Vapour density Not applicable. Evaporation rate Not applicable. Segregation coefficient (n-octanol/water): Not determined. Viscosity: Not applicable. dynamic: Not applicable. viscosity: Not applicable. dynamic: Not applicable. other information Not applicable. Other information No further relevant information available. 10 Stability and reactivity Reactivity Chemical stability No decomposition if used and stored according to specifications. Possibility of hazardous reactions nown No dangerous reactions known Incompatible materials: No dangerous reactions known Acids Oxidizing agents Water/molisture Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Not dater or skin and mucous membranes. 11 Toxicological information Irritant for skin and mucous membranes. Information on toxicological effects Acute toxicity: Primary irritant effect: Irritant for skin and mucous membranes. on the skin: Irritant ef	Lower: Upper:	Not determined	
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Reactivity Chemical stability Thermal decomposition / conditions to be avoided: Possibility of hazardous reactions Incompatible materials: No decomposition if used and stored according to specifications. No dangerous reactions known Acids Oxidizing agents Water/moisture Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) 11 Toxicological information Information on toxicological effects Acute toxicity: Primary irritant effect: on the skin: Irritant for skin and mucous membranes. Irritant effect.	dynamic: kinematic:	Not applicable.	
Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications. Possibility of hazardous reactions Incompatible materials: No decomposition if used and stored according to specifications. Hazardous decomposition products: Acids Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) 11 Toxicological information Information on toxicological effects Acute toxicity: Primary irritant effect: on the skin: Irritant for skin and mucous membranes. Irritant of skin and mucous membranes. Irritant effect.			
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Information on toxicological effects Acute toxicity: Primary irritant effect: on the skin: Irritant for skin and mucous membranes.	Hazardous decomposition products:	Carbon monoxide and carbon dioxide	
	Information on toxicological effects Acute toxicity: Primary irritant effect: on the skin:		(Contd. on page 3) GB

	according to 1907/2006/EC, Article 31	
Printing date 08.02.2011		Revision: 04.02.2011
Trade name 5-Amino-1,3-dimethylpyrazo	le	
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Sensitization:	No sensitizing effect known.	(Contd. of page 2)
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully No classification data on carcinogenic properties of this material is available from the EP	KNOWN.
	or ACGIH.	
12 Ecological information		
Toxicity		
Acquatic toxicity:	No further relevant information available.	
Persistence and degradability Behaviour in environmental systems:	No further relevant information available.	
Bioaccumulative potential Mobility in soil	No further relevant information available. No further relevant information available.	
Additional ecological information: General notes:		
General notes.	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 bodie Do not allow material to be released to the environment without proper governmental per	es or sewage system.
Results of PBT and vPvB assessment	Do not allow material to be released to the environment without proper governmental per	rmits.
PBT: vPvB:	Not applicable. Not applicable.	
Other adverse effects	No further relevant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste.	
	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.	
Uncleaned packagings: Recommendation:		
Recommendation:	Disposal must be made according to official regulations.	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (c ADR/RID-GGVS/E Class:	ross-border/domestic)	
	NONE	
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:	None	
Marine pollutant:	No	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None	
Special precautions for user	Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
	and the second	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific for the		
substance or mixture Labelling according to Regulation (EC) No	Substance is not listed.	
1272/2008	The substance is classified and labelled according to the CLP regulation.	
Hazard pictograms	$\langle ! \rangle$	
	GHS07	
Signal word	Warning	
Hazard statements	H315 Causes skin irritation.	
	H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove	contact lenses if
	present and easy to do. Continue rinsing.	
	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific treatment (see on this label).	
	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/nation	nal/international
	regulations.	
National regulations		
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.	
16 Other information		
this information to ensure proper use and prote	a supplement to other information gathered by them, and should make independent judger ct the health and safety of employees. This information is furnished without warranty, and ta Sheet, or in combination with any other product or process, is the responsibility of the use	any use of the product
Department issuing data specification sheet	- Usetthe Cofety and Environmental Department	
Contact: Abbreviations and acronyms:	Ryan P. Wilson ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning	the International Carriage of
	Dangerous Goods by Road) RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations	Concerning the International
	Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods	
	ATA- International AIF I FIRSPORT Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization	
	Health, Safety and Environmental Department. Ryan P. Wilson ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Transport of Dangerous Goods by Rail) IMDC: International Martime Code for Dangerous Goods IATA-IDR: Dangerous Goods Regulations by the "International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)	
	CAS: Chemical Abstracts Service (division of the American Chemical Society)	GB