	Nevision: 05:00:2010
1 Identification of substance	
Product details Trade name	N-Methyl (R)-1-ferrocenyl-(S)-(2-diphenylphosphino)ethylamine
Stock number:	H25817
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com
Informing despréssions,	D-76185 Karlsruhe / Germany www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240
	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240
2 Hazards identification Hazard designation:	
Tazaru uesiyilation.	Xi Irritant
Information pertaining to particular dangers for man and environment	
GHS label elements	R 36/37/38 Irritating to eyes, respiratory system and skin. Warning
	H315 - Causes skin irritation.
	H210 Causas asticus avairritation
Prevention: Response:	H335 - May cause respiratory irritation. H335 - May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
Response.	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
Storage:	Pice in the present and easy to do. Continue rinsing. P321 Specific treatment (see on this label). P405 Store locked up.
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
3 Composition/information on ingredients	s
Chemical characterization: Designation: (CAS#)	N-Methyl (R)-1-ferrocenyl-(S)-(2-diphenylphosphino)
	ethylamine (CAS# ?): 100%
4 First aid measures	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
After skin contact	Seek immediate medical advice. 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 doctor.
After swallowing	Seek immediate medical advice.
5 Fire fighting measures Suitable extinguishing agents	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases:	Co2, extinguishing powder or water jet. Fight larger lifes with water jet or alconor-resistant roam.
products of compustion of nuc gases.	Carbon monoxide and carbon dioxide
	Nitrogen oxides (NOx) Phosphorus oxides Metal oxide
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.
6 Accidental release measures	
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection:	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting: Additional information:	Ensure adequate ventilation. See Section 7 for information on safe handling
	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:	Keen containers tighthy pooled
Morniauon ior sare nanunny.	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:	Keep ignition sources away - Do not smoke.
Storage	Neep ignition sources away - Do not smoke.
Requirements to be met by storerooms and containers:	No special requirements.
Information about storage in one common 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.
8 Exposure controls and personal protec Additional information about design of	tion
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with critical values that require	
monitoring at the workplace: Additional information:	Not required. No data
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.
	(Contd. on page 2) GB

Printing date 09.08.2010	according to 1907/2006/EC, Article 31	Revision: 09.08.2010
Trade name <i>N-Methyl (R)-1-ferrocenyl-</i> (S	S)-(2-diphenylphosphino)ethylamine	
		(Contd. of page 1)
Breathing equipment: Protection of hands: Material of gloves Penetration time of glove material Eye protection:	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 fu and varies from manufacturer to manufacturer. Impervious gloves Not determined Safety glasses	
Body protection:	Face protection Protective work clothing.	
9 Physical and chemical properties:		
General Information Form:	Powder	
Colour: Smell:	Orange-brown Not determined	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined	
Flash point:	Not applicable	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Danger of explosion:	Product is not explosive.	
Critical values for explosion: Lower: Upper:	Not determined Not determined	
Steam pressure:	Not determined	
Density	Not determined	
10 Stability and reactivity Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Phosphorus oxides (e.g. P2O5) Metal oxide	
11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Irritant for skin and mucous membranes. Irritant effect. No sensitizing effect known. 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 EF or ACGIH.	known. PA, IARC, NTP, OSHA
12 Ecological information: Additional ecological information: 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 bodi Do not allow material to be released to the environment without proper governmental pe	es or sewage system. rmits.
13 Disposal considerations Product: Recommendation Uncleaned packagings:	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.	
Recommendation:	Disposal must be made according to official regulations.	
14 Transport information Land transport ADR/RID and GGVS/GGVE (	cross-border/domestic)	
ADR/RID-GGVS/E Class: Maritime transport IMDG/GGVSea:	None	
IMDG/GGVSea Class: Marine pollutant:	None No	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None	
Transport/Additional information:	Not dangerous according to the above specifications.	
15 Regulatory information Designation according to EC guidelines: Code letter and hazard designation of product:	Xi Irritant	
Risk phrases: Safety phrases:	36/37/38 Irritating to eyes, respiratory system and skin. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical	advice. (Contd. on page 3) GB

GB

Printing date 09.08.2010	Revision: 09.08.2	
rade name <b>N-Methyl (R)-1-ferrocenyl</b>	rl-(S)-(2-diphenylphosphino)ethylamine	
	37 Wear suitable gloves. (Co	ntd. of page
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.	
-	y as a supplement to other information gathered by them, and should make independent judgement of sui protect the health and safety of employees. This information is furnished without warranty, and any use o ty Data Sheet, or in combination with any other product or process, is the responsibility of the user. sheet: Health, Safety and Environmental Department.	t the produ
Contact: Abbreviations and acronyms:	Zachariah Holt	