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	Version 1
1 Identification	
Product identifier	
Product name: <u>4-(4-Methyl-1-piperazinyl)aniline</u>	
Stock number: H26684 CAS Number: 16153-81-4	
Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928	-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.	
Hazards not otherwise classified No information known. Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS05 GHS07	
Signal word Danger Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dusts or mists. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P303+P361+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if 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/international regulations. WHMIS classification	
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects E - Corrosive material	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 3 Fire I Fire I	
Reactivity ① Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Composition/monimation on ingredients Chemical characterization: Substances CAS# Description: 16153-81-4 4-(4-Methyl-1-piperazinyl)aniline Concentration: ≤100%	
4 First-aid measures	
Description of first aid measures	
General information Immediately remove any clothing soiled by the product.	(Contd. on page 2)
	USA

Product name: 4-(4-Methyl-1-piperazinyl)aniline

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately 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 a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Harmful if inhaled. Harmful if incontact with skin. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.	
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: 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. Specific end use(s) No further relevant information available.	
 8 Exposure controls/personal 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. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintai an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to deviny purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. 	ermine if air- (Contd. on page 3)
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Product name: 4-(4-Methyl-1-piperazinyl)aniline

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General Information Government Go	9 Physical and chemical properties		
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	vPvB: Not applicable.		(Contd. on page 4) USA

(Contd. of page 3)

Product name: 4-(4-Methyl-1-piperazinyl)aniline Other adverse effects No further relevant information available 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN3263 UN proper shipping name Corrosive solid, basic, organic, n.o.s. (4-(4-Methyl-1-piperazinyl)aniline) 3263 Corrosive solid, basic, organic, n.o.s. (4-(4-Methyl-1-piperazinyl)aniline) CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (4-(4-Methyl-1-piperazinyl)aniline) ADR ÎMDG, IATA Transport hazard class(es) DOT Class 8 Corrosive substances Label ADR Class 8 (C8) Corrosive substances Label IMDG. IATA Class 8 Corrosive substances Label Packing group DOT, ADR, IMDG, IATA ||| Environmental hazards: Not applicable. Special precautions for user EMS Number: Warning: Corrosive substances F-A,S-B Alkalis Segregation groups Stowage Category Segregation Code A SG35 Stow "separated from" acids Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg Marine Pollutant (DOT): No IMDG 5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g Limited quantities (LQ) Excepted quantities (EQ) UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (4-(4-METHYL-1-PIPERAZINYL)ANILINE), 8, III UN "Model Regulation":

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms



Signal word Danger Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage.

 H314
 Causes severe skin burns and eye damage.

 Precautionary statements
 Do not breathe dusts or mists.

 P260
 Do not breathe dusts or mists.

 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if 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/international regulations.

 This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

(Contd. on page 5)

Product name: 4-(4-Methyl-1-piperazinyl)aniline

(Contd. of page 4)
This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
SARA Section 313 (specific toxic chemical listings) Substance is not listed.
California Proposition 65
Prop 65 - Chemicals Known to cause cancer Substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.
Information about limitation of use: For use only by technically qualified individuals.
Other regulations, limitation and prohibitive regulations
Substance/or lower High Concern (SVHG) according to the REACH Regulations (EC) No. 1907/2006, Substance is not listed.
Annex XVI of the REACH Regulations (requiring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information on use this information only as a supplement to other information gathered by then, 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 lumished without warranty, and any use of the product not in conformation with this Safety Data Safety Department
Department issuing SDS: Global Marketing Department
Department issuing SDS: Global Marketing Department
Department issuing SDS: Global Marketing Department
Defar Information Sure proper use and protect the health and safety of employees. This informational Carriage of Dangerous Goods by Road(
MDF), internation and according to Athere (Sure)
Department issuing SDS: Global Marketing Department
Defar Information Sure information of the responsibility of the information of the responsibility of the Sure information of the responsibility of the Sure information of the sure information System (Carriel)
Defar Information Sure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conforma