

Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision: 09.08.2010

Printing date 09.08.2010

1 Identification of substance**Product details****Trade name****2-Phenylpiperazine****Stock number:**

H26502

Manufacturer/Supplier:Alfa Aesar GmbH & Co.KG
Benzstrasse 3
D-76185 Karlsruhe / GermanyE-mail: gcat@matthey.com
www.alfa-chemcat.com**Informing department:**

Product safety department.

Emergency information:Giftnotruf Universität Mainz / Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telefon: +49(0)6131/19240**2 Hazards identification****Hazard designation:**

C Corrosive

Information pertaining to particular dangers for man and environmentR 22 Harmful if swallowed.
R 34 Causes burns.**GHS label elements****Danger**

H314 - Causes severe skin burns and eye damage.

**Warning**

H302 - Harmful if swallowed.

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 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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Prevention:**Response:****Storage:****Disposal:****3 Composition/information on ingredients****Chemical characterization:****Designation: (CAS#)**

2-Phenylpiperazine (CAS# 5271-26-1): 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.

After eye contact

Seek immediate medical advice.

After swallowing

Rinse opened eye for several minutes under running water. Then consult doctor.

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.

Special hazards caused by the material, its products of combustion or flue gases:

Can be released in case of fire:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Wear self-contained breathing apparatus.

Wear full protective suit.

Protective equipment:**6 Accidental release measures****Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits.

Dispose of contaminated material as waste according to item 13.

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.

Measures for environmental protection:**Measures for cleaning/collecting:****Additional information:****7 Handling and storage****Handling****Information for safe handling:**

Handle under dry protective gas.

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**Requirements to be met by storerooms and containers:**

No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from air.

Further information about storage conditions:

Store under dry inert gas.

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.

This product is air sensitive.

8 Exposure controls and 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.

Components with critical values that require monitoring at the workplace:

Not required.

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Additional information:	No data	(Contd. of page 1)
Personal protective equipment	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. Impervious gloves Not determined Safety glasses Face protection Protective work clothing.	
General protective and hygienic measures		
Breathing equipment:		
Protection of hands:		
Material of gloves		
Penetration time of glove material	Impervious gloves Not determined Safety glasses Face protection Protective work clothing.	
Eye protection:		
Body protection:		

9 Physical and chemical properties:

General Information		
Form:	Powder	
Colour:	Whitish	
Smell:	Not determined	
Change in condition	83-87°C	
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start:	Not determined	
Flash point:	Not applicable	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Danger of explosion:	Product is not explosive.	
Critical values for explosion:	Not determined	
Lower:		
Upper:	Not determined	
Steam pressure:	Not determined	
Density	Not determined	
Solubility in / Miscibility with	Slightly soluble	
Water:		

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.	
Materials to be avoided:	Acids Air Carbon dioxide Oxidizing agents	
Dangerous reactions:	No dangerous reactions known	
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide	
	Nitrogen oxides (NOx)	

11 Toxicological information

Acute toxicity:	Irritant for skin and mucous membranes. Corrosive effect on skin and mucous membranes. Irritant effect. 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. 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.	
Primary irritant effect:		
on the skin:		
on the eye:		
Sensitization:	No sensitizing effect known.	
Additional toxicological information:		


12 Ecological information:

Additional ecological information:	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 bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.	
General notes:		

13 Disposal considerations

Product:	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.	
Recommendation		
Uncleaned packagings:	Disposal must be made according to official regulations.	
Recommendation:		

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)		
		
ADR/RID-GGVS/E Class:	8 (C8) Corrosive substances.	
Kemler Number:	80	
UN-Number:	3259	

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Trade name **2-Phenylpiperazine**

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Packaging group:	III
Label	8
Designation of goods:	3259 AMINES, SOLID, CORROSIVE, N.O.S. (2-Phenylpiperazine)
Limited quantities (LQ)	LQ24
Transport category	3
Tunnel restriction code	E

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class:	8
UN Number:	3259
Label	8
Packaging group:	III
Marine pollutant:	No
Segregation groups	Alkalies
Correct technical name:	AMINES, SOLID, CORROSIVE, N.O.S. (2-Phenylpiperazine)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class:	8
UN/ID Number:	3259
Label	8
Packaging group:	III
Correct technical name:	AMINES, SOLID, CORROSIVE, N.O.S. (2-Phenylpiperazine)

UN "Model Regulation":	UN3259, AMINES, SOLID, CORROSIVE, N.O.S., 8, III
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15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of product:



C Corrosive

Risk phrases:	22 Harmful if swallowed.
	34 Causes burns.

Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
	45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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.
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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.

Department issuing data specification sheet: Health, Safety and Environmental Department.

Contact: Zachariah Holt

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement 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

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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)