

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 21.08.2010

Revision: 21.08.2010

## 1 Identification of substance

### Product details

Trade name

**3-Phenoxyphenylacetonitrile**

Stock number:

L09916

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:



Xn Harmful

Information pertaining to particular dangers  
for man and environment  
GHS label elements

R 22 Harmful if swallowed.



Warning

H302 - Harmful if swallowed.  
P280 Wear protective clothing.

Prevention:

## 3 Composition/information on ingredients

Chemical characterization:

Designation: (CAS#)

3-Phenoxyphenylacetonitrile (CAS# 51632-29-2)

## 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.  
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

CO<sub>2</sub>, 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 (NO<sub>x</sub>)  
Hydrogen cyanide (HCN)  
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

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.

Measures for cleaning/collecting:

Ensure adequate ventilation.

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.  
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:Do not store together with acids.  
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 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.

Additional information:

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.  
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

Breathing equipment:

Protection of hands:

Material of gloves

Penetration time of glove material

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Eye protection: Safety glasses  
 Body protection: Protective work clothing.

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**9 Physical and chemical properties:****General Information**

Form: Liquid  
 Colour: Colourless  
 Smell: Nearly odourless

Change in condition  
 Melting point/Melting range: Not determined  
 Boiling point/Boiling range: 145°C (1 mmHg)  
 Sublimation temperature / start: Not determined

Flash point: &gt; 110°C

Ignition temperature: Not determined

Decomposition temperature: Not determined

Danger of explosion: Product is not explosive.

Critical values for explosion:  
 Lower: Not determined  
 Upper: Not determined

Steam pressure: Not determined

Density at 20°C: 1.11 g/cm<sup>3</sup>

Solubility in / Miscibility with  
 Water: Not miscible or difficult to mix

**10 Stability and reactivity**

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.  
 Materials to be avoided: Acids  
 Oxidizing agents  
 Dangerous reactions: No dangerous reactions known  
 Dangerous products of decomposition: Carbon monoxide and carbon dioxide  
 Nitrogen oxides (NO<sub>x</sub>)  
 Hydrogen cyanide (prussic acid)

**11 Toxicological information**

Acute toxicity:  
 Primary irritant effect:  
 on the skin: May cause irritation  
 on the eye: May cause irritation  
 Sensitization: No sensitizing effect known.  
 Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.  
 No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

**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 bodies or sewage system.  
 Do not allow material to be released to the environment without proper governmental permits.

**13 Disposal considerations**

Product:  
 Recommendation: 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.  
 Uncleaned packagings:  
 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: None

Maritime transport IMDG/GGVSea:  
 IMDG/GGVSea Class: None  
 Marine pollutant: 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:



Xn Harmful

Risk phrases: 22 Harmful if swallowed.

Safety phrases: 36 Wear suitable protective clothing.

National regulations

Information about limitation of use: For use only by technically qualified individuals.  
 Employment restrictions concerning young persons must be observed.

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**Trade name 3-Phenoxyphenylacetonitrile****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)

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