

	Revision Date 17.07.2015	Version 4.5	
SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier			
Catalogue No.	820561		
Product name	2-Phenylacetohydrazide for synthes	sis	
REACH Registration Number	A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.		
CAS-No.	114-83-0		
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	Chemical for synthesis For additional information on uses p portal (www.merckgroup.com).	please refer to the Merck Chemicals	
1.3 Details of the supplier of the	safety data sheet		
Company Responsible Department	Merck KGaA * 64271 Darmstadt * 0 LS-QHC * e-mail: prodsafe@merck	-	
1.4 Emergency telephone number	Please contact the regional compa	any representation in your country.	

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 3, Oral, H301

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification (67/548/EEC or 1999/45/EC) Harmful

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Xn
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R22

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms



Signal word Danger

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Product name	2-Phenylacetohydrazide for synthesis
<i>Hazard statem</i> H301 Toxic if s	
Precautionary Response	s <i>tatements</i> • exposed or concerned: immediately call a POISON CENTER or doctor/ physician.
CAS-No.	114-83-0

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

Formula	CH₃CONHNHC₀H₅	C₅H₁₀N₂O (Hill)
EC-No.	204-055-3	
Molar mass	150,18 g/mol	

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical Name (Concentration) CAS-No. Registration number 2'-Phenylacetohydrazide (<= 100 %) 114-83-0 *)

Classification

Acute toxicity, Category 3, H301

*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Hazardous components (1999/45/EC)

Chemical Name (Concentration)CAS-No.Classification2'-Phenylacetohydrazide (<= 100 %)</td>114-83-0Xn, Harmful; Xn; R22

For the full text of the R-phrases mentioned in this Section, see Section 16.

3.2 Mixture

Not applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water.

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If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: nitrogen oxides

5.3 Advice for firefighters

Special protective equipment for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

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SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Keep locked up or in an area accessible only to qualified or authorised persons.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

	Glove material: Glove thickness: Break through time:	Nitrile rubber 0,11 mm > 480 min
splash contact:		
	Glove material: Glove thickness: Break through time:	Nitrile rubber 0,11 mm > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

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This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment protective clothing

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 3 (acc. to DIN 3181) for solid and liquid particles of toxic and very toxic substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	powder, finecrystalline
Colour	beige
Odour	No strong odour known.
Odour Threshold	No information available.
рН	No information available.
Melting point	131 °C
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.

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Water solubility	at 20 °C slightly soluble
Partition coefficient: n- octanol/water	log Pow: 0,74 (calculated) (Lit.) Bioaccumulation is not expected.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	

none

SECTION 10. Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents, Strong acids, Bases

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity LD50 Mouse: 270 mg/kg

(RTECS)

absorption

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Acute inhalation toxicity This information is not available.

Acute dermal toxicity

This information is not available.

Skin irritation This information is not available.

Eye irritation This information is not available.

Sensitisation This information is not available.

Germ cell mutagenicity This information is not available.

Carcinogenicity This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

After absorption: We have no description of any toxic symptoms. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability No information available.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow: 0,74 (calculated)

(Lit.) Bioaccumulation is not expected.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

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ECTION 13. Disposal considerations <i>Waste treatment methods</i> See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.		
ECTION 14. Transport informa	ation	
Land transport (ADR/RID)		
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.	
Inland waterway transport	(ADN)	
Not relevant		
Air transport (IATA)		
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.	
Sea transport (IMDG)		
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.	

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

<i>EU regulations</i> Major Accident Hazard Legislation	SEVESO III ACUTE TOXIC H2 Quantity 1: 50 t Quantity 2: 200 t	
Occupational restrictions	work. Observe work re	B/EC on the protection of young people at estrictions regarding maternity protection in B5/EEC or stricter national regulations where
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer		not regulated
Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC		not regulated
Regulation (EC) No 689/2008 concerning the export not regulated and import of dangerous chemicals		not regulated

Catalogue No. Product name	820561 2-Phenylacetohy	drazide for synthesis
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of \geq 0.1 % (w/w).
<i>National legislation</i> Storage class	6.1C	
15.2 Chemical Safety Assessment		
For this product a chemical safety assessment was not carried out.		

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H301 Toxic if swallowed.

Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed.

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word Danger

Hazard statements H301 Toxic if swallowed.

Precautionary statements Response P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Labelling (67/548/EEC or 1999/45/EC)

Symbol(s)

🗙 Xn

R-phrase(s) EC-No. 22 204-055-3

Harmful if swallowed.

Harmful

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

Catalogue No.820561Product name2-Phenylacetohydrazide for synthesis

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.