

**Section 1 – Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifiers:**

Product Name: 3-(4-Methyl-piperazin-1-yl)-propionic acid

Product No.: 2113

Synonyms:

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS No.: [55480-45-0]

EC No.: 675-661-7

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Identified uses: Laboratory chemicals, Manufacture of substances. Research and Development.

**1.3 Details of the supplier of the safety data sheet:**

Company: CHES Chemische Entwicklungs- und Synthese-Service GmbH  
Difffenéstr 27, 68169 Mannheim, Germany

Phone/Fax Phone: +49-621 / 318 9794, Fax +49-621 / 318 9691  
Web/E-Mail [www.chess-chem.com](http://www.chess-chem.com), E-Mail: [sales@chess-chem.com](mailto:sales@chess-chem.com)

**1.4 Emergency telephone number:**

Emergency Phone # +49 621 318 97 94

**Section 2 - Hazards Identification**

**2.1 Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008**

Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, H319, H335, H315

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

**2.2 Label elements**

**Labelling according Regulation (EC) No 1272/2008**

Piktograms



GHS07

!

Signal word: Warning

**Hazard Statement(s):**

H319 Causes serious eye irritation. H335 May cause respiratory irritation. H315 Causes skin irritation.

**Precautionary Statement(s):**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P280 Wear protective gloves/protective clothing/eye protection/face protection.

Supplemental Hazard Statements: none

**2.3 Other hazards:**

No data available

All the chemical, physical and toxicological properties have not been thoroughly investigated.

**Section 3: Composition/information on ingredients**

**3.1 Substances:**

Chemical Name: 3-(4-Methyl-piperazin-1-yl)-propionic acid, >98 %  
Formula: C8H16N2O2  
Molecular Weight: 172.23 g/mol  
CAS#: [55480-45-0]  
EC#: 675-661-7

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

Component	Classification	Concentration
<b>3-(4-Methyl-piperazin-1-yl)-propionic acid</b>		
CAS#: [55480-45-0] EC#: 675-661-7	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, H319, H335, H315	<= 100%

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

**Section 4 - First Aid Measures**

**4.1 Description of first aid measures:**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed:**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

No data available.

**Section 5 - Fire Fighting Measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture:**

no data available

**5.3 Advice for firefighters:**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information:**

no data available

**Section 6 - Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**6.2 Environmental precautions:**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up:**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections:**

For disposal see section 13.

**Section 7 - Handling and Storage****7.1 Precautions for safe handling:**

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Store at -15 °C

**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:****Components with workplace control parameters****8.2 Exposure controls:****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment:****Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

e.g. Material: Nitrile rubber, minimum layer thickness: 0,11 mm, break through time: 480 min  
Material tested: Dermatri® (KCL 740)

**Body Protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

**Section 9 - Physical and Chemical Properties**

a) Appearance	Form: solid, crystals Colour: colorless to pale yellow
b) Odour	n/a
c) Odour Threshold	n/a
d) pH	n/a
e) Melting point/ freezing point	108-111 °C
f) Initial boiling point and boiling range	n/a
g) Flash point	n/a
h) Evaporation rate	n/a
i) Flammability (solid, gas)	n/a
j) Upper/lower flammability or explosive limits	n/a / n/a
k) Vapour pressure	n/a
l) Vapour density	n/a
m) Relative density	n/a
n) Water solubility	n/a
o) Partition coefficient: n-octanol/water	n/a
p) Auto-ignition temperature	n/a
q) Decomposition temperature	n/a
r) Viscosity	n/a
s) Explosive properties	n/a
t) Oxidizing properties	n/a

**Section 10 - Stability and Reactivity****10.1 Reactivity**

no data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Heat, sparks, open flames

**10.5 Incompatible materials**

strong oxidizing agents, strong acids, acid chlorides, acid anhydrides

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions: Carbon monoxide, Carbon dioxide, Nitrogen oxides  
Other decomposition products - no data available  
In the event of fire: see section 5

**Section 11 - Toxicological Information****11.1 Information on toxicological effects****Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006  
Creation Date: 21.02.2006  
Version 2, Revision Date: 24.02.2023  
Print Date: 22.05.2024

MSDS Name: 3-(4-Methyl-piperazin-1-yl)-propionic acid

Catalogue #: 2113

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### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### Aspiration hazard

no data available

### Additional Information

RTECS: No results for CAS# search in RTECS.

All the chemical, physical and toxicological properties have not been thoroughly investigated.

## Section 12 - Ecological Information

### 12.1 Toxicity

no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data 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

no data available

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

## Section 14 - Transport Information

### 14.1 UN number

ADR/RID: n/a                      IMDG: n/a                      IATA: n/a

### 14.2 UN proper shipping name

ADR/RID:   Classed non-hazardous for shipping.  
IMDG:       Classed non-hazardous for shipping.  
IATA:        Classed non-hazardous for shipping.

### 14.3 Transport hazard class(es)

ADR/RID: n/a                      IMDG: n/a                      IATA: n/a

### 14.4 Packaging group

ADR/RID: n/a                      IMDG: n/a                      IATA: n/a

### 14.5 Environmental hazards

ADR/RID: no                      IMDG Marine pollutant: no                      IATA: no

### 14.6 Special precautions for user

no data available



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## Section 15 - Regulatory Information

### European Information:

#### Hazard Statement(s): H319, H335, H315

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#### Precautionary Statement(s): P305 + P351 + P338, P280

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### ESIS:

No results for CAS# search in ESIS 675-661-7

### US Federal:

TSCA: CAS# TSCA: Not listed.

SARA 302 components: No chemicals in this material are subject to the reporting requirements of SARA title III, section 302.

SARA 313 components: No chemicals in this material are subject to the reporting requirements of SARA title III, section 313.

New Jersey Right to Know Components: This product may contain a chemical on the NJ Right to Know Components List.

California Prop. 65 Components: This product may contain a chemical known to the State of CA to cause cancer, birth defects, or other reproductive harm.

This product is for research and development use only.

## Section 16 - Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. CHESS shall not be held liable for any damage resulting from handling or from contact with the above product.