

N-Methylpiperazine

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name N-Methylpiperazine Chemical Name N-Methylpiperazine

 $C_5H_{12}N_2$ Chemical Formula CAS No. 109-01-3 203-639-5 EC No.

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Supplier

Company Identification Bond Chemicals Ltd

Address of Supplier Cinnamon House Cinnamon Park

Crab Lane Warrington

WA20XP Postal code 01925661750 Telephone: Fax Not known.

info@bondchemicals.co.uk E-mail

Office hours 09:00 - 18:00

1.4 Emergency telephone number

0203 394 9841 Emergency Phone No. Contact OHES Environmental

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Flam. Liq. 3: Flammable liquid and vapour.

Acute Tox. 4: Harmful in contact with skin.

Skin Corr. 1B: Causes severe skin burns and eye damage.

Acute Tox. 3: Toxic if inhaled.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name N-Methylpiperazine

Hazard Pictogram(s)



GHS02



GHS06



GHS05

Signal Word(s) Danger

Hazard Statement(s) H226: Flammable liquid and vapour.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H331: Toxic if inhaled.

Precautionary Statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

HAZARDOUS	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		Registration No.			Pictogram(s)
N-Methylpiperazine	109-01-3	203-639-5	<= 100	Flam. Liq. 3 H226	GHS02
				Acute Tox. 4 H312	GHS06
				Skin Corr. 1B H314	GHS05
				Acute Tox. 3 H331	GHS07

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Specific treatment (see Medical Advice on this label). Immediately call a POISON

CENTER/doctor.

Skin Contact Take off contaminated clothing and wash it before reuse. Specific treatment (see

Medical Advice on this label). Take off immediately all contaminated clothing. Rinse

skin with water. Immediately call a POISON CENTER/doctor.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Immediately call a POISON

CENTER/doctor. Treat symptomatically.

SECTION 5: FIREFIGHTING 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

Flammable liquid and vapour. Combustion or thermal decomposition will evolve

toxic and irritant vapours. Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire

area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable

protective clothing, gloves, and eye/face protection.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by

wetbrushing and place in container for disposal according to local regulations.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

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7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.

No smoking. Keep container tightly closed. Use explosion-proof

electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wash hands and exposed skin thoroughly

after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent

leakage. Hygroscopic moisture sensitive.

Storage temperature Ambient.

Storage life Stable under recommended storage conditions.

Incompatible materials None known.

7.3 Specific end use(s)

Laboratory chemicals, manufacture of substances

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and

intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes

should be present. 8.2.2. Personal protection equipment

Eye Protection Wear eye protection with side protection (EN166).

Skin protection Wear protective clothing and gloves: Impervious gloves (EN 374).

(i)

Respiratory protection A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Clear liquid Colour : Light yellow

Odour
Odour threshold
PH
Not known.
Melting point/freezing point
Not known.
Initial boiling point and boiling range
138 °C

Initial boiling point and boiling range 138 °C Flash Point 39 °C [Closed cup]

Evaporation rate Not known. Flammability (solid, gas) Not known. Upper/lower flammability or explosive Not known.

limits

Vapour pressure
Vapour density
Density (g/ml)
Not known.
Not known.

Relative density 0.903 g/cm³ at 25 °C

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Solubility(ies) Solubility (Water): Not known.

Solubility (Other): Not known.

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition Temperature (°C)
Viscosity
Not known.
Explosive properties
Not known.
Oxidising properties
Not known.
Not known.

9.2 Other information

None.

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, flames, and sparks.

10.5 Incompatible materials

Acids, acid chlorides, acid anhydrides, strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - carbon oxides,

nitrogen oxides (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion Toxic if swallowed.

Acute toxicity - Skin Contact Harmful in contact with skin.

Acute toxicity - Inhalation Toxic if inhaled.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

Skin sensitization data Not classified. Not classified. Respiratory sensitization data Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Not classified. Reproductive toxicity Lactation Not classified. STOT - single exposure STOT - repeated exposure Not classified. Not classified. Aspiration hazard Not classified. 11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates No data available
Toxicity - Fish No data available.
Toxicity - Algae No data available
Toxicity - Sediment Compartment Not classified.
Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Other adverse effects

Not known.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state, or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 2734

14.2 UN proper shipping name

UN proper shipping name AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 8
ADR Classification Code CF1
Special Provisions 274
Limited Quantities 1 L
Excepted Quantities E2
Emergency Action Code •2W

Mixed Packing Instructions for Packages P001 IBC02

Special Packing Provisions for Packages

Mixed Packing Instructions for Packages MP15
Packing Instructions for Portable Tanks
Special Provisions for Portable Tanks
Tank Code for Tanks

MP15
T11
TP2 TP27
TANK Code for Tanks

Special Provisions for Tanks

Vehicle for Tank Carriage FL
ADR Transport Category 2
Tunnel Restriction Code D/E

Special Provisions for Carriage -

Packages

Special Provisions for Carriage - Bulk Special Provisions for Carriage - Loading,

Unloading and Handling

Special Provisions for Carriage - S2
Operation
ADR HIN 83
IMDG
IMDG Class 8
Special Provisions 274
Limited Quantities 1 L
Excepted Quantities E2

Mixed Packing Instructions for Packages P001 IBC02

Special Packing Provisions for Packages

Packing Instructions for Portable Tanks
Special Provisions for Portable Tanks
IMDG EMS
Stowage and Handling
Segregation
T11
TP2 TP27
F-E, S-C
Category A
Segregation
SGG18 SG35

Marine Pollutant

ICAO/IATA
IATA Proper Shipping Name AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.

Excepted Quantities E2
Passenger and Cargo Aircraft Limited Y840

Quantities Packing Instructions

Passenger and Cargo Aircraft Limited 0.5 L

Quantities Max net Qty

Passenger and Cargo Aircraft Packing 851
Instructions
Passenger and Cargo Aircraft Max net 1 L

Qty

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Cargo Aircraft Packing Instructions 855 Cargo Aircraft Max net Qty 30 L

Special Provisions

Emergency Response Guidebook (ERG) 8F

Code Labels

Labels



14.4 Packing group

Packing group 14.5 Environmental hazards

Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available

SECTION 15: REGULATORY INFORMATION

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

N-Methylpiperazine (109-01-3)

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very

High Concern for Authorisation

REACH: ANNEX XIV list of substances

subject to authorisation

Not listed

Not listed

REACH: Annex XVII Restrictions on the

manufacture, placing on the market and

use of certain dangerous substances,

mixtures and articles

Community Rolling Action Plan (CoRAP) Not listed Regulation (EC) N° 850/2004 of the Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 1005/2009 on

substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the

European Parliament and of the Council

concerning the export and import of

hazardous chemicals **National regulations**

Other

15.2 Chemical Safety Assessment

Not known.

Not listed

Not listed

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)



GHS02



GHS06



GHS05

GHS07: GHS: Exclamation mark

Hazard classification Flam. Liq. 3: Flammable liquid, Category 3

Acute Tox. 4: Acute toxicity, Category 4

Skin Corr. 1B: Skin corrosion/irritation, Category 1B

Acute Tox. 3: Acute toxicity, Category 3

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Hazard Statement(s)

H226: Flammable liquid and vapour. H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H331: Toxic if inhaled.

Precautionary Statement(s)

Acronyms

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

ADN: European Agreement concerning the International Carriage of Dangerous

Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous

Goods by Road

CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures DNEL: Derived No Effect Level EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO : International Civil Aviation Organization IMDG: International Maritime Dangerous Goods

LTEL: Long term exposure limit

PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

UN: United Nations

vPvB: very Persistent and very Bioaccumulative

Key literature references and sources for Regulation (EC) No. 1272/2008 (CLP) data used to compile the SDS

Disclaimers

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