

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : N,N-Dimethylacetamide
SDS-number : 000000020221
Type of product : Substance
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.
In accordance to the Article 14 (1) of the REACH Regulation
(EC) No 1907/2006, exposure estimation and risk
characterisation is not required.

Chemical name : N,N-dimethylacetamide

Index-No. : 616-011-00-4

REACH Registration
Number : no data available

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

Use of the
Substance/Mixture : Laboratory chemicals

Uses advised against : none

1.3. Details of the supplier of the safety data sheet

| | | |
|---------|---|--|
| Company | : Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA | Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA |
|---------|---|--|

Telephone :
For further information,
please contact: : SafetyDataSheet@Honeywell.com

1.4. Emergency telephone number

Emergency telephone
number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)
Country based Poison : see chapter 15.1

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Control Center

SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute toxicity Category 4 - Dermal
H312 Harmful in contact with skin.
Eye irritation Category 2
H319 Causes serious eye irritation.
Acute toxicity Category 4 - Inhalation
H332 Harmful if inhaled.
Reproductive toxicity Category 1B
H360D May damage the unborn child.

2.2. Label elements

REGULATION (EC) No 1272/2008

| | | |
|--------------------------|---|--|
| Hazard pictograms | : |  |
| Signal word | : | Danger |
| Hazard statements | : | H312 + H332 Harmful in contact with skin or if inhaled. H319 Causes serious eye irritation. H360D May damage the unborn child. |
| Precautionary statements | : | P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 Wear respiratory protection. 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. P308 + P313 IF exposed or concerned: Get medical advice/ attention. |

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Special labelling of certain products : Restricted to professional users.

2.3. Other hazards

Vapours may form explosive mixtures with air. Results of PBT and vPvB assessment, see chapter 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substance

| Chemical name | CAS-No. Index-No. REACH Registration Number EC-No. | Classification 1272/2008 | Concentration | Remarks |
|-----------------------|--|---|---------------|---------|
| N,N-dimethylacetamide | 127-19-5 616-011-00-4 204-826-4 | Acute Tox. 4; H332; Inhalation Acute Tox. 4; H312; Dermal Eye Irrit. 2; H319 Repr. 1B; H360D | 100 % | |

3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.
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:

First aider needs to protect himself. Move out of dangerous area. Immediately take off contaminated clothing and rinse body with plenty of water.

Inhalation:

If inhaled, remove to fresh air. Call a physician immediately.

Skin contact:

After contact with skin, wash immediately with plenty of water. Call a physician immediately.

Eye contact:

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Rinse immediately with plenty of water, also under the eyelids. Protect unharmed eye. Call a physician immediately.

Ingestion:

When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

No data available

See Section 11 for more detailed information on health effects and symptoms. :

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Extinguishing media which shall not be used for safety reasons:

High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire may cause evolution of:

Nitrogen oxides (NO_x)
Carbon oxides
Pyrolysis products

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.
Exposure to decomposition products may be a hazard to health.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Clean contaminated floors and objects thoroughly while observing environmental regulations.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.
Pick for disposal in tightly closed containers
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Exhaust ventilation at the object is necessary. Keep limited supplies at workplace. Refill and handle product only in closed system.

Advice on protection against fire and explosion:

Take measures to prevent the build up of electrostatic charge.

Hygiene measures:

Separate rooms are required for washing, showering and changing clothes. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing. Keep working clothes separately.

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Temperature class:
T2

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers should be protected against falling down. Avoid product residues in/on containers. Do not leave vessels/containers open. Store in a place accessible by authorized persons only. Keep under nitrogen.

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

| Components | Basis / Value type | Value / Form of exposure | Exceeding Factor | Remarks |
|-----------------------|----------------------|--------------------------------|------------------|-----------------------------------|
| N,N-dimethylacetamide | EH40 WEL STEL | 72 mg/m ³ 20 ppm | | |
| N,N-dimethylacetamide | EH40 WEL TWA | 36 mg/m ³ 10 ppm | | |
| N,N-dimethylacetamide | EH40 WEL SKIN_DES | | | Can be absorbed through the skin. |
| N,N-dimethylacetamide | EH40 WEL | | | Listed |
| N,N-dimethylacetamide | EU ELV SKIN_DES | | | Can be absorbed through the skin. |
| N,N-dimethylacetamide | EU ELV TWA | 36 mg/m ³ 10 ppm | | Indicative |
| N,N-dimethylacetamide | EU ELV STEL | 72 mg/m ³ 20 ppm | | Indicative |

STEL - Short term exposure limit
TWA - Time weighted average
SKIN_DES - Skin designation:

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

DNEL/ PNEC-Values

| Component | End-use/impact | Exposure duration | Value | Exposure routes | Remarks |
|-----------------------|--|-------------------|----------------|-----------------|---------|
| N,N-dimethylacetamide | Workers / Long-term systemic effects | | 36 mg/m3 | Inhalation | |
| N,N-dimethylacetamide | Workers / Acute systemic effects | | 36 mg/m3 | Inhalation | |
| N,N-dimethylacetamide | Workers / Acute systemic effects | | 13,6mg/kg bw/d | Skin contact | |
| N,N-dimethylacetamide | Consumers / Long-term systemic effects | | 7 mg/m3 | Inhalation | |
| N,N-dimethylacetamide | Consumers / Long-term systemic effects | | 2,7mg/kg bw/d | Skin contact | |
| N,N-dimethylacetamide | Consumers / Long-term systemic effects | | 1mg/kg bw/d | Ingestion | |

| Component | Environmental compartment / Value | Remarks |
|-----------------------|-------------------------------------|--------------------------|
| N,N-dimethylacetamide | Fresh water: 0,5 mg/l | Assessment factor: 1000 |
| N,N-dimethylacetamide | Marine water: 0,0966 mg/l | Assessment factor: 10000 |
| N,N-dimethylacetamide | Sewage treatment plant: 485 mg/l | Assessment factor: 10 |
| N,N-dimethylacetamide | Fresh water sediment: 0,15 mg/kg dw | |
| N,N-dimethylacetamide | Soil: 0,15 mg/kg dw | Assessment factor: 1000 |

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Avoid contact with skin, eyes and clothing.

Take off all contaminated clothing immediately.

Wash hands before breaks and at the end of workday.

Avoid exposure - obtain special instructions before use.

Personal protective equipment

Respiratory protection:

In the case of vapour formation use a respirator with an approved filter.

Hand protection:

Glove material: butyl-rubber

Break through time: 480 min

Glove thickness: 0,7 mm

Butoject® 898

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:

Safety goggles

Skin and body protection:

Protective suit

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------------------|---|
| Physical state | : liquid |
| Colour | : colourless to yellowish |
| Odour | : amine-like |
| molecular weight | : 87,12 g/mol |
| Melting point/range | : -20 °C |
| Boiling point/boiling range | : 164 - 166 °C at 1.013 hPa |
| Upper explosion limit | : 11,5 %(V) 99 °C |
| Lower explosion limit | : 1,2 %(V) ca. 51 °C |
| Flash point | : 64 °C |
| Auto-ignition temperature | : 345 °C Method: DIN 51794 |
| Decomposition temperature | : 130 °C |
| pH | : 4 Concentration: 200 g/l at 20 °C |
| Auto-ignition temperature | : not auto-flammable |
| Viscosity, kinematic | : No data available |
| Water solubility | : completely miscible |
| Solubility in other solvents | : Soluble in most organic solvents |

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Partition coefficient: n-
octanol/water : log Pow -0,77
at: 25 °C

Vapour pressure : 2 hPa
at 20 °C

Density : 0,94 g/cm³
at 20 °C

Relative vapour density : No data available

9.2 Other Information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

Viscosity, dynamic : 1,02 mPa.s
at 20 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

130 °C
Decomposition temperature

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

10.5. Incompatible materials

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Strong oxidizing agents

10.6. Hazardous decomposition products

Nitrous gases
Carbon dioxide (CO₂)
Carbon monoxide
No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Not classified due to data which are conclusive although insufficient for classification.

Acute dermal toxicity:

Classification based on Annex VI of regulation 1272/2008/EC.

Acute inhalation toxicity:

Classification based on Annex VI of regulation 1272/2008/EC.

Skin irritation:

Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Eye irritation:

Species: Rabbit
Result: irritating
Method: OECD Test Guideline 405

Respiratory or skin sensitisation:

Route of exposure: Dermal
Species: Guinea pig
Result: non-sensitizing
Method: in vivo assay

Germ cell mutagenicity:

Note: No data available

Reproductive toxicity:

Remarks: No data available
Remarks: No data available

Aspiration hazard:

No data available

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

11.2. Information on other hazards

Endocrine disrupting properties
No data available

Other information:

Can be absorbed through skin.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:

LC50

static test

Species: *Leuciscus idus* (Golden orfe)

Value: > 500 mg/l

Exposure time: 96 h

Method: DIN 38412

Toxicity to aquatic plants:

EC50

Growth rate

Species: *scenedesmus subspicatus*

Value: > 500 mg/l

Exposure time: 72 h

Toxicity to Microorganisms:

LOEC

Growth inhibition

Species: *Pseudomonas putida*

Value: 4.850 mg/l

Exposure time: 16 h

Toxicity to aquatic invertebrates:

semi-static test

Species: *Artemia nauplii*

Value: 966 mg/l

Exposure time: 96 h

Chronic toxicity to aquatic invertebrates:

No data available

12.2. Persistence and degradability

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Biodegradability:

Biodegradation: 70 %

Exposure time: 28 d

Result: rapidly biodegradable

Method: Tested according to Directive 92/69/EEC.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

14.1 UN number

ADR/RID:Not dangerous goods IMDG:Not dangerous goods IATA:Not dangerous goods

14.2 UN proper shipping name

ADR/RID:Not dangerous goods
IMDG:Not dangerous goods
IATA:Not dangerous goods

14.3 Transport hazard class(es)

14.4 Packaging group

14.5 Environmental hazards

ADR/RID:no Marine pollutant: no

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

| Basis | Value | Remarks |
|--|-------|--|
| Substances of very high concern (SVHC) | | This product does contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w). |
| Directive 2012/18/EC | | Not applicable |

Poison Control Center

| Country | Phone Number |
|---------|--------------|
| Austria | +4314064343 |
| Belgium | 070 245245 |

| Country | Phone Number |
|---------------|---------------|
| Liechtenstein | +41 442515151 |
| Lithuania | +370532362052 |

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

| | |
|--------------------|------------------------------|
| Bulgaria | (+359)29154233 |
| Croatia | (+385)23-48-342 |
| Cyprus | +357 2240 5611 |
| Czech Republic | +420224919293; +420224915402 |
| Denmark | 82121212 |
| Estonia | 16662; (+372)6269390 |
| Finland | 9471977 |
| France | +33(0)145425959 |
| Greece | +30 210 779 3777 |
| Hungary | (+36-80)201-199 |
| Iceland | 5432222 |
| Ireland | +353(1)8092166 |
| Italy | 0382 24444 |
| Germany | Berlin : 030/19240 |
| | Bonn : 0228/19240 |
| | Erfurt : 0361/730730 |
| | Freiburg : 0761/19240 |
| | Göttingen : 0551/19240 |
| | Homburg : 06841/19240 |
| | Mainz : 06131/19240 |
| Munich : 089/19240 | |
| Latvia | +37167042473 |

| | |
|-----------------|---|
| Luxembourg | 070245245; (+352)80002-5500 |
| Malta | +356 2395 2000 |
| Netherlands | 030-2748888 |
| Norway | 22591300 |
| Poland | +48 42 25 38 400 |
| Portugal | 800250250 |
| Romania | +40 21 318 3606 |
| Slovakia (NTIC) | +421 2 54 774 166 |
| Slovenia | +386 1 400 6051 |
| Spain | +34915620420 |
| Sweden | 112 (begär Giftinformation);+46104566786 |
| Switzerland | 145 |
| United Kingdom | (+44) 844 892 0111 |

Other inventory information

US. Toxic Substances Control Act
On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List
On the inventory, or in compliance with the inventory

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

Korea. Existing Chemicals Inventory (KECI)

On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

N,N-dimethylacetamide : H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H319 Causes serious eye irritation.
H360D May damage the unborn child.

Further information

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a

N,N-Dimethylacetamide

270555-1L

Version 2.0

Revision Date 27.07.2021

Supersedes 1

guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.