Safety Data Sheet according to Regulation (EC) No. 1907/2006



Revision Date: 04.08.2022 Version 2

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

1.1 Product identifier

TK.050151.00000 Catalog No. **Product Name** N,N-Dimethlyformamide

Cas no 68-12-2

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

1.2.1. Relevant identified uses

Industrial uses. Scientific research and development. Use as laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

TEKKİM KİMYA SAN. TİC. LTD. ŞTİ. Name

ORGANIZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA Street

0224 243 21 71 Telephone

E-mail erhan@tekkim.com.tr

Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Flammable liquid category 3 Acute toxicity category 4, skin Acute toxicity category 4 inhalation

Eye irritation category 2

Reproductive toxicity category 1B

Full text of R-, H- and EUH-phrases: see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms







Signal word (SEA)

DANGER

Hazard Statements (SEA)

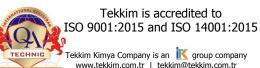
H226 Flammable liquid and vapour. H319 Causes serious eye irritation.

H312+H332 Harmful in contact with skin or if inhaled. May cause damage to the unborn child.

Precautionary Statements (SEA)







Tekkim Kimya Sanayi ve Ticaret Limited Şirketi Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nlüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 04.08.2022 Version 2



Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P201 Obtain special instructions before use.

Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler

 EC No
 200-679-5

 Molar mass
 73.09 g/mol

 Cas No
 68-12-2

 Concentration
 (<= 100 %)</td>

SECTION 4: First aid measures

4.1 Description of first aid measures

General information In case of accident or unwellness, seek medical advice immediately

(show directions for use or safety data sheet if possible).

Following inhalation Remove casualty to fresh air and keep warm and at rest..

Following skin contact Wash with plenty of water. Take off contaminated clothing.

Following eye contact In case of contact with eyes, rinse immediately with plenty of water and

consult an ophthalmologist.

Following ingestion Please give up to two glasses of water. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

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. Dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated:. Flammable. Heavy vapors in the air at the ground surface may occur.. It can

create explosive mixtures with air on intense heating. In case of fire hazardous combustion gases or vapors may

occur.. Nitrogen oxide.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



Tekkim is accredited to ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nlüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 04.08.2022 Version 2

TEKKIM

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not discharge into sewer. Risk of explosion.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and anything that can cause ignition.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

N, N-Dimethylformamide (68-12-2)

TR MAK Skin description: Can be absorbed through the skin.

Acceptable 10 mbp maximum 30 mg / m3

concentration (MAK)

TR OEL Skin description: Can be absorbed through the skin.

Another time 15 10 mbp unless specified 30 mg / m3

for a minute not to be exceeded upper limit of exposure

value (STEL):

8 hour set 5 mbp for reference time 5 mbp

measured or calculated time weighted average (TWA):

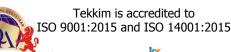
8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.







Tekkim Kimya Company is an K group company www.tekkim.com.tr | tekkim@tekkim.com.tr

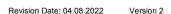
Tekkim Kimya Sanayi ve Ticaret Limited Şirketi Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nlüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

+30 224 242 37 (pbx) | 1 dx. +30 224 242 37

Factory: istoc 33.ada No: 47-49-51-53

Safety Data Sheet according to Regulation (EC) No. 1907/2006





Personal protection equipment

Eye/face protection Safety glasses

Hand protection

Hand protection Full contact

Glove material: butyl rubber Glove thickness:0,7 mm

Break through time: >480 minute

Splash contact:

Glove material: Viton (R) Glove thickness:0,7 mm

Break through time: >240 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

No information.

Other skin protection

Flame reterdant antistatic protective chlothing.

Respiratory protection

Required when vapours are generated Recommented filter type: Filter A-(P2)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state Liquid Colour Colorless Odour like amen

Odour threshold 0,329 ppm

pH value 6,5 - 7,5 200 g/l 20 °C Melting point/freezing point -61 °C

Freezing point

Initial boiling point and boiling range

153 °C 57.5 °C Flash point Evaporation rate No information.

Flammability (solid, gas) 435 °C Upper/lower flammability or explosive limits 2,2 %(V)

16 %(V) Upper/lower flammability or explosive limits

3,77 hPa 20 °C Vapour pressure

Vapour density 2,52 0,944 g/cm3 25 °C Density Relative density No information.

Water solubility (g/l) Soluble. Fat solubility (q/l) No information.

Partition coefficient: n-octanol/water log Pow: -0,85 25 °C - Bioaccumulation is not

expected. No information. Auto-ignition temperature > 350 °C Decomposition temperature

Viscosity

Kinematic viscosity No information. 0,86 mPa.s 20 °C Dynamic viscosity

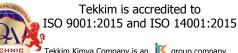
Explosive properties Not classified as explosive.

Oxidising properties none

SECTION 10: Stability and Reactivity







Tekkim Kimya Company is an K group company www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nlüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)



10.1 Reactivity

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures..

10.3 Possibility of hazardous reactions

Violent reactions can occur with alkali metals, halogens, halides, reducing compounds, triethylaluminum, nitrates, metallic oxides, nonmetallic oxides, Halogenated hydrocarbon, Isocyanates, sodium, Sodium borohydride, hydrides, Oxidizing agents, Phosphorus oxides.

Revision Date: 04.08.2022

Version 2

Risk of explosion and / or formation of toxic gases with azides, Bromine, Chlorine, chromium (VI) oxide, potassium permanganate, triethylaluminum, chlorates, Halogenated hydrocarbons.

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Various plastics. Copper alloys.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 3.010 mg / kg OECD Test Guideline 401

Symptoms: Gastrointestinal disturbances, Nausea, Vomiting

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Acute dermal toxicity LD50 Rabbit: 1.500 mg / kg

(IUCLID)

Eye irritation

Rabbit

Result: Eye irritation

(IUCLID)

Causes serious eye irritation.

CMR effects

Teratogenicity (may cause developmental disabilities):

May damage the unborn child

Repeated dose toxicity

Rat

male and female

Oral 28 g Daily

NOAEL: 238 mg / kg

LOAEL: 475 mg / kg OECD Test Guideline 407

Subacute toxicity

11.2 Additional information

After absorption: Headache, Dizziness, Drowsiness

It has damage to kidney and liver.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information







Tekkim is accredited to ISO 9001:2015 and ISO 14001:2015

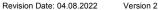
Tekkim Kimya Company is an K group company www.tekkim.com.tr | tekkim@tekkim.com.tr Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nlüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)





12.1 Toxicity

Toxicity to fish flow-through test LC50 Lepomis macrochirus (Bluegill sunfish): 7,100 mg / I; 96 h Analytical monitoring: yes **US-EPA**

Toxicity to daphnia and other aquatic invertebrates static test EC50 Daphnia magna (Water flea): 13.100 mg / I; 48 hrs **OECD Test Guideline 202**

Toxicity to algae (algae)

static test EC50 Desmodesmus subspicatus (green algae):> 1,000 mg / I; 72 h DIN 38412

Toxicity to bacteria

static test EC50 Vibrio fischeri: 12.300 - 17.500 mg / I; 5 min (External product safety sheet)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) semi-static test NOEC Daphnia magna (Water flea): 1.500 mg / I; 21 g (External product safety sheet)

12.2 Persistence and degradability

Biodegradation one hundred %; 21 g; oxygenated (aerobic) OECD Test Guideline 301E It is easily soluble in nature by itself.

Biochemical Oxygen Demand (BOD) 900 mg / g (5 g) (Source)

Theoretical oxygen demand (ThOD) 1.863 mg / g

12.3 Bioaccumulative potential

Partition coefficient (n-octanol / water) log Pow: -0.85 (25 ° C) **OECD Test Guideline 107**

Bioaccumulation is not expected.

Bioaccumulation Bioconcentration factor (BCF): 0.3 - 1.2

Cyprinus carpio (Carp); 56 g OECD Test Guideline 305C

It does not accumulate significantly in organisms.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Stability in water about 50 g reaction with hydroxyl radicals Discharge into environment must be avoided

SECTION 13: Disposal considerations

Waste treatment methods





Tekkim is accredited to SO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an K group company www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nlüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

Safety Data Sheet according to Regulation (EC) No. 1907/2006



3

Revision Date: 04.08.2022 Version 2

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
UN 2265	UN 2265	UN 2265	UN 2265	UN 2265
14.2 UN proper shipping name				
N,N-DIMETHYLFORMAMIDE	N,N-DIMETHYLFORMAMIDE	N,N-DIMETHYLFORMAMIDE	N,N-DIMETHYLFORMAMIDE	N,N-DIMETHYLFORMAMIDE

14.3 Transport hazard class(es)

3







14.4 Packing group

Ш Ш Ш Ш

14.5 Environmental hazards

YES YES YES

No information available. No information available No information available. No information available. No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

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

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H312+H332 Harmful in contact with skin or if inhaled.

May cause damage to the unborn child. H360D

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER Certificate Number and Date:

11.29.03 & 11 Şubat 2020 Communication information:

05069903686







Tekkim is accredited to ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an K group company www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nlüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53