Safety Data Sheet

Page **1** of **8**

COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

Printing Date 25/08/2020

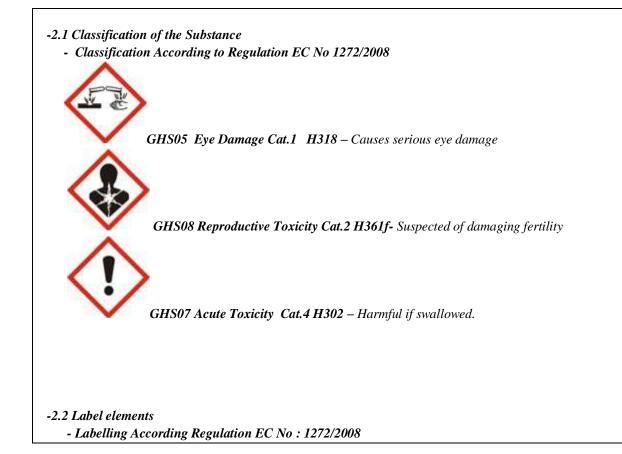
Product Name – N,N' Dimethyl propylene urea

0 Revision No-07 Revision Date- 24/08/2020

1. Identification Of the Substance

1.1 Product Identifier - Product Name: N.N'Diemthyl propylene urea - Synonym: Tetrahydro-1,3-dimethyl-1H-pyrimidin-2-one - Trade Name: DMPU - Cas No: 7226-23-5 - E.C No:230-625-6 - Index No:613-280-00-X 1.2 Relevant identified uses of the substance or the mixture and uses advised against. - As polar aprotic solvent: No further relevant Information available 1.3 Details of the supplier of the safety data sheet : - Manufacturer/Supplier Alkyl Amines Chemicals Ltd 401-407, Nirman Vyapar Kendra, Plot No-10 Sect-17, Vashi, Navi Mumbai-400 703 - e-mail address of the competent person responsible for Safety data sheet : rsattigeri@alkylamines.com - Informing Dept : R&D - Emergency Contact No : +991 2117 235175/235222, Mobile No : +919881973507 / +91 9423002721 - Emergency Contact No for US only : +1 703 527 3887 / 800 424 9300 1.4 Emergency Contact No : As mentioned above

2. Hazard Identification



Safety Data Sheet COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

Printing Date 25/08/2020

Product Name – N,N' Dimethyl propylene urea



Revision No-07 Revision Date- 24/08/2020



3.Composition/Information on Ingredients

Description	CAS No	EC No	Content (% w/w)
N,N' Dimethyl propylene Urea	7226-23-5	230-625-6	>99.0 % w/w

Molecular Formula – C6H12N2O Molecular Wt- 128.17

4.First-Aid Measures

--4.1 Description of first aid measures General information: Immediately remove any clothing contaminated by the product. Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended. IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician. After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor. After skin contact: Rinse with plenty of water. If skin irritation continues, consult a doctor. After eye contact: Rinse opened eye for several minutes under running water. Use eye protection.

Safety Data Sheet



COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

Printing Date 25/08/2020

Product Name - N, N' Dimethyl propylene urea

0 Revision No-07 Revision Date- 24/08/2020

Call a doctor immediately.

After swallowing:

Rinse out mouth and then drink at least 200-300 ml of water.

Call a doctor immediately.

-4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

-4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available

5. Fire Fighting Measures

- 5.1 Extinguishing media
- Suitable extinguishing agents Carbon dioxide (CO 2), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- For safety reasons unsuitable extinguishing agents none
- 5.2 Special hazards arising from the substance or mixture
- Can be released in case of fire: Nitrogen oxides (NOx)
- Carbon monoxide (CO) and Carbon dioxide (CO $_2$)
- · 5.3 Advice for fire-fighters
- Protective equipment: Wear self-contained breathing apparatus.
- Additional information
- Cool endangered containers with water spray jet.
- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
- If without risk possible, move drums with material away from dangerous area.

6.Accidental release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours.
- 6.2 Environmental precautions: Damp down gases/fumes/haze with water spray jet. Do not allow to enter drainage system, surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.
- 6.4 Reference to other sections See Section 8 for information on personal protection equipment.

7. Handling and Storage

7.1 Precautions for safe handling
 Ensure good ventilation/exhaustion at the workplace.
 Avoid contact with skin and eyes.
 Do not inhale vapours/aerosols.
 Information about protection against explosions and fires:
 Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

Protect from heat.

Keep ignition sources away - Do not smoke.

Safety Data Sheet



COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

Printing Date 25/08/2020

Product Name – N,N' Dimethyl propylene urea

0 Revision No-07 Revision Date- 24/08/2020

- 7.2 Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and containers:

Observe all local and national regulations for storage of water polluting products.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Store under shade at ambient temperature ($<45^{\circ}C$) & dry conditions in well-sealed containers Store container in a well ventilated place.

7.3 Specific end use(s) No further relevant information available.

8. Exposure Control/Personal Protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace: No occupational exposure limits
known.
• Additional information: The lists that were valid during the compilation were used as basis.
· 8.2 Exposure controls
· Personal protective equipment
· General protective and hygienic measures
Keep away from foodstuffs, beverages and food.
Instantly remove any contaminated garments.
Do not eat, drink or smoke while working.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Wash hands during breaks and at the end of the work.
· Breathing equipment:
Use breathing protection in case of insufficient ventilation.
Use breathing protection with high concentrations
· Protection of hands:
Protective gloves
To avoid skin problems reduce the wearing of gloves to the required minimum.
Check the permeability prior to each renewed use of the glove.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the
degradation.
· Material of gloves
Butyl rubber - BR
Recommended thickness of the material: ≥ 0.7 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality
and varies from manufacturer to manufacturer.
· Penetration time of glove material
Penetration time: ≥ 8 hours
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
observed.
\cdot As protection from splashes gloves made of the following materials are suitable:
Nitrile rubber - NBR
Recommended thickness of the material: ≥ 0.4 mm
Penetration time: ≥ 30 min.
· Eye protection: Tightly sealed safety glasses
· Body protection:
Protective work clothing
Body protection must be chosen depending on possible activity and exposure.

Safety Data Sheet COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015

 Amending Annex II of Regulation EU No 453/2010

 Product Name – N,N' Dimethyl propylene urea

 R

Revision No-07 Revision Date- 24/08/2020

Page **5** of **8**

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9. Physical and Chemical Properties

Printing Date 25/08/2020

Appearance/Physical state /colour	Colourless liquid
Explosive limit Upper	9.3 vol %
lower	1.6 vol %
Odour	No peculiar odour
Vapour pressure	0.5 hPa @ 57 °C
Odour Threshold	No data available
Vapour density	0.02 hPa @20 °C
PH (10% in water)	11 @ 20 °C
Density	1.0600 g/cm3@ 20°C
Melting point/freezing point	-24 °C @ 1013hPa
Solubility in water	Miscible
nitial Boiling Point/Boiling Range	247 °C
Flash Point	121°C
Evaporation Rate	No data available
Flammability (solid, gas)	Not Applicable
Partition Coefficient : n-Octanol Water	Log PoW = 0.18 @ 25 °C
Auto ignition Temperature	255 °C
Decomposition temperature	No data available
Viscosity- dynamic	3.32 m Pa s @ 20 °C
Kinematic	No data available
Danger of Explosion	Product is not explosive. However, formation of
	explosive air/vapour mixtures is possible.

-9.2 Other information - No further information available

10. Stability and Reactivity

-10.1 Reactivity
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications
To avoid thermal decomposition, do not overheat.
- 10.3 Possibility of hazardous reactions
Risk of explosion with Chromium (VI)oxide
Can form explosive mixture in air if heated above flash point or when spread or atomised.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:
Strong oxidizing agents
Acids
- 10.6 Hazardous decomposition products:
Nitrogen oxides (NOx)
Carbon monoxide (CO) and Carbon dioxide (CO 2)



Safety Data Sheet COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

Product Name – N,N' Dimethyl propylene urea

0 Revision No-07 Revision Date- 24/08/2020

11. Toxicological Information

Printing Date 25/08/2020

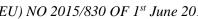
-11.1 Information on Toxicological Effects				
Acute Toxicity				
LD50/LC50 values that are relevant for classification				
LD 50 Oral	1770 mg/kg for rat (male/female)			
LD 50 Dermal	> 2000 mg/kg (Rabbit)			
LC 50 Inhalation	study scientifically not necessary / other information available			
-Primary Irritant effect ;				
Assessment : Corrosive, a	· ·			
Skin irritation/corrosion	•			
Animal Tests(OECD Guid	leline 404) conducted show the substance is slightly irritating			
Eye irritation :				
Animal Test (OECD Guid	eline 405) results show the substance to be highly irritating to eyes			
Sensitization;				
No skin sensitization effect	ts were observed in the animal tests			
Genetic Toxicity :				
The substance was not fou	und to be mutagenic in animal tests.			
Carcinogenicity :				
No component of this subs	stance greater than or equal to 0.1% was identified to be probable/possible/confirmed			
carcinogenic by IARC.				
Repeated Dose toxicity (o	ral):			
	es the target organs to be identified as spleen, thymus and kidney.			
Toxicity to Reproduction				
The substance is suspected				
I				

12. Ecological Information

Aquatic toxicity	
EC50/3 h	>1000 mg/l (bacteria, activated sludge)
LC50/96 h (static)	1000-2000 mg/l (leuciscus idus)
2.2 Persistence and degradability N	o further relevant information available
her information: Biodegradability :	
he product is slightly biodegradable.	•
2.3 Bio-accumulative potential	
log P(o/w): 0.9 @ 24 deg C	
An accumulation in organisms is not e	expected (log $P(o/w) < 1$).
2.4 Mobility in soil No further releve	ant information available.
Additional ecological information:	
General notes:	
Do not allow product to reach ground	d water, water bodies or sewage system.
Water hazard class 1: low hazardou.	s for water (Ref- GESTIS Substance Data Base)
12.5 Results of PBT and vPvB assess	sment
PBT: Not applicable.	
PvB: Not applicable.	
	r relevant information available.

13. Disposal Consideration

Safety Data Sheet COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015





Amending Annex II of Regulation EU No 453/2010

Printing Date 25/08/2020

Product Name – N,N' Dimethyl propylene urea

Revision No-07 Revision Date- 24/08/2020

-13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

Waste disposal key number: According to local/national regulations.

European waste catalogue:

Waste disposal key numbers from EWC have to be assigned depending on origin and processing. Un-cleaned packagings:

Recommendation: Disposal must be made according to official regulations. Drum decontamination shall be done by initially rinsing with aqueous Acetic acid (5%) solution followed by water washing till neutral PH. It is strongly recommended to disfigure the container/drum before disposal.

Transport Information 14.

-14.1 UN Number	Not Applicable	
ADR, IMDG, IATA		
-14.2 UN Proper Shipping Name	Not dangerous good	
ADR		
IMDG ,IATA		
-14.3 Transport Hazard Class		
ADR		
Class	N.A	
Label	N.A	
IMDG, IATA		
Class	N.A	
Label	N.A	
-14.4 Packing Group	N.A	
ADR, IMDG, IATA		
-14.5 Environmental Hazard		
Marine Pollutant	No	
-14.6 Special Precautions For User	N.A	
Kemler No		
EMS No		

15. Regulatory Information

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

· National regulations

· Information about limitation of use: Employment restrictions concerning young persons must be observed.

• Decree to be applied in case of technical fault: Directive 96/82/EC does not apply.

· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water(Ref-GESTIS Substance Data Base)

· Other regulations, limitations and prohibitive regulations

Observe restrictions on the marketing and use according to Annex XVII of Regulation (EC) No 1907/2006.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other Information

Page **8** of **8**

Safety Data Sheet COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

Printing Date 25/08/2020

Product Name – N,N' Dimethyl propylene urea

0 Revision No-07 Revision Date- 24/08/2020

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Dept issuing MSDS- Tech services

Only Representative : Global Product Compliance (Europe)AB, Lund , Sweden e-mail: sk@reach-onlyrep.eu info@gpcregulatory.com *Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"

(IATA) ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent

PBT : Persistent, Bio accumulative, Toxic

vPvB : Very persistent, very bio accumulative

Ref-

- 1) Regulation (EC)No 1272/2008 of the European Parliament and of the Council
- 2) Guidance on the compilation Safety Data Sheet publish by ECHA Ver. 2.1 Feb 2014
- *3) Toxnet HSDB*
- 4) Chem-watch Gold MSDS
- 5) European Chemicals Agency, <u>http://echa.europa.eu/</u>