Safety Data Sheet
Product:TDI-Urone
Version: 1.0
Revision Date: 01/01/2024

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

1.1 Product identifier:

Substance name	N,N''-(4-methyl-m-phenylene)bis[N',N'-dimethylurea]
CAS No.	17526-94-2
Product code	TDI-Uron
REACH Registration No.	Not available

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

Relevant identified uses	Accelerator
Uses advised against	Not identified
Reason why uses advised against	Not identified

1.3 Details of the Supplier of the safety data sheet

1.3.1 Details of the supplier of the safety data sheet

Manufacturer/Supplier	MR TEK Ltd
Address	Room 06,13A/F., South Tower, World Finance Center, Harbour City, 17 Canton Road Tsim Sha Tsui, Kowloon, Hong kong,China
Telephone number	0086 1381854 7689

SECTION 2: Hazards identification

2.1 Classification of the substance

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Not a dangerous substance according to GHS.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

This substance is not classified as dangerous according t

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

The product does not need to be labelled in accordance with EC directives or respective na tional laws.

2.2.1 Other hazards None

SECTION 3: Composition/information on ingredients

Product identifier type in accordance	CAS No	Formula	EC Number	Molecular weight
N,N''-(4-methyl-m-phenylene)bis[N',N'-dimethylurea]	17526-94-2	C13H20N4O2	241-523-6	264.32 g/mol
No components need to be disclosed according to the applicable regulations.				

4 Description of first-aid measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in at tendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. If irritation persists, seek medical help.
In case of skin contact	Remove contaminated or saturated clothing. Wash contaminated skin with soap and plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur.
In case of eye contact	Immediately rinse eyes thoroughly with plenty of water for at least 15 minutes and consult a physician.
If ingested	Wash out mouth with water. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

This substance is not classified as dangerous (see section 2) and no toxic effects were observed (see section 11)

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry powder or carbon dioxide (CO_2).

5.2 Special hazards arising from the substance or mixture

In the case of fire, the following hazardous smoke fumes may be produced:

Nitrous gases,Ammonia,Carbon oxides.

5.3 Advice for firefighters In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

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.Ensure adequate ventilation.Make safe or remove all sources of ignition.

6.2 Environmental precautions Prevent substance from entering soil, natural bodies of water and sewer systems. Inform the relevant authorities. If the product has caused environmental pollution (sewers, waterways, soil

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at machinery.
Avoid contact with skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practices.
Advice on protection against fire and explosion:Avoid dust formation.Keep away from heat and sources of ignition.
Dust explosion class:St2: Considerable danger of dust explosion.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place.
Suitable materials:Polyethylene.
Advice on common storage:Incompatible with strong acids and bases
Storage class (TRGS 510):Flammable solid.

7.3 Specific end use(s) No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters No substance-specific limiting known.

8.2 Exposure controls

Personal protective equipment:

Eye/face protection: Wear safety glasses conforming to EN 166 (EU) or NIOS (US).

Hand protection: Wear protective gloves according to DIN EN 374 made of the following materials
Glove material:Polychloroprene with natural-latex liner
Material thickness in mm:0.4
Break through time in min:>480
Glove material:Nitrile rubber
Material thickness in mm:0.4
Break through time in min:>480

Skin and body protection: Complete suit protection against chemicals (protective suit). The type of protective equipment must be selected according to the concentra tion and amount of dangerous substance at the specific workplace.

Respiratory protection: Do not inhale gases, vapours, aerosols or dust – use respiratory pro tection equipment. Dust protection mask in accordance with EN 149 FFP2.

Hygiene measures: Avoid contact with skin, eyes and clothing. Take off clothing and shoes contaminated with product. Clean before reuse. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Form: solid, crystalline (at 20C and 1,013 hPa)
Colour: White

Odour: Odourless

Odour threshold: No data available

pH value: No data available

Melting point/range in °C: ≥177

Initial boiling point and boiling range (at 1,013.3 hPa) in °C:

	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	Not highly flammable
Vapour pressure in hPa:	No data available
Density (20 °C) in g/cm3:	1.23
Water solubility (25 °C) in g/l	23.2
Partition coefficient:	n-octanol/water (20 °C) (log/Pow): 0.69
Auto-ignition in °C:	>360
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Non-explosiv
Oxidising properties:	Non-oxidising
9.2 Other safety information	No data available.

SECTION 10: Chemical Stability & Reactivity Information

10.1 Reactivity	Reactions with strong acids, alkalis and oxidants.
10.2 Chemical stability	No decomposition if stored and applied as directed
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to avoid	>200 °C. Liberation of flammable gases
10.5 Incompatible materials	Oxidising agents, strong acids and strong bases.
10.6 Hazardous decomposition products	Ammonia, nitrous gases, aromatic ureas, hydrocyanic acid, isocyanates

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Dose LD50 in mg/kg: 2,000 (oral)
	Species:Rat
	Result:No adverse effect observed
	Dose LD50 in mg/kg:2,000 (dermal)
	Exposure time in h:24
	Species:Rat
	Result:No adverse effect observed
Skin corrosion/irritation	Exposure time in h:4
	Species:Rabbit
	Result:No adverse effect observed (not irritating)
Serious eye damage/eye irritation	Species:Rabbit
	Result:No adverse effect observed (no eye irritation)
Skin sensitisation	Species:Guinea pig
	Type of study:Guinea pig maximisation test
	Result:No adverse effect observed (not sensitising)
Genetic toxicity	Type of study:Mammalian cell gene mutation assay In vitro
	Cell type:Chinese hamster lung fibroblasts (V79)
	Maximum concentration in mM:~10
	Result:Negative (no cytotoxicity)
Carcinogenicity	No data available.
Reproductive toxicity	Limit dose in mg/kg bw/d:Limit dose in mg/kg bw/d:
	Species:Rat
	Result:No significant adverse effects
Specific target organ toxicity – single exposure	No data available.
Specific target organ toxicity – repeated exposure	Effect level in mg/kg bw/day:1,000 (oral)
	Species:Rat
	Result:No adverse effect observed

SECTION 12: Ecological information

12.1 Ecotoxicity	The substance does not need to be classified for the environment (no lethal and/or sublethal effects observed at the limit concentration of 100 mg/l in all three (fish, daphnia and algae) tests).
12.2 Persistence and degradability	Not inherently biodegradable.Only poorly degradable.
12.3 Bioaccumulation	Unlikely to bioaccumulate.
12.4 Mobility (in soil)	The substance is being readily transported with soil and sedi ment pore water resulting in transport in/leaching from soil and sediments.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:	In compliance with actual waste regulations, the product must be brought to a suitable disposal plant in accordance with all national and local regulations.
Contaminated packages:	Packaging that cannot be reused after cleaning must be disposed as unused product.

SECTION 14: Transport Information

The substance TDI-Urone is not classified as dangerous in the meaning of transport regulations

14.1 UN number	ADR/ADN/IMDG/IATA	No.
14.2 UN proper shipping name	ADR/ADN/IMDG/IATA	No.

14.3 Transport hazard class(es)	ADR/ADN/IMDG/IATA	No.
14.4 Packing group	ADR/RID/IMDG/IATA:	No.
14.5 Environmental hazards	Marine pollutant:	No
14.6 Special precautions for the user	Not applicable.	
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.	
14.8 UN Model Regulation	Void.	

SECTION 15: Regulatory information

15.1 Specific safety, health and environmental regulations/legislation

EU regulations:

Labelling (EEC):	See section 2.
15.2 Chemical safety assessment carried out	The substance has not been subjected to a safety assessment.

SECTION 16: Other information

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We shall not be held liable for any damage resulting from handling or from contact with the above product.