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MATERIAL SAFETY DATA SHEET

2,2,6,6 TETRAMETHYLPYPERIDINE-1-OXYL (For Synthesis) (Free radical) (TEMPO) MSDS CAS: 2564-83-2

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: 2,2,6,6 TETRAMETHYLPYPERIDINE-1-OXYL

CAS#: 2564-83-2

Synonym: Not available.

Chemical Name: Not available.

Chemical Formula: Not available.

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
2,2,6,6 TETRAMETHYL PYPERIDINE -1-OXYL (TEMPO)	2564-83-2	100

Toxicological Data on Ingredients: Not available.

Section 3: Hazards Identification

Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification: C; R34

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards: Skin corrosion - Category 1B - Danger (CLP: Skin Corr. 1B) H314

Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s): C: Corrosive

R Phrase(s): R34: Causes burns.

S Phrase(s): S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)

Signal words: Danger

Hazard statements: H314: Causes severe skin burns and eye damage.

Precautionary statements

Prevention:

P280: Wear protective gloves, protective clothing, eye protection, face protection. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse.

Storage:

P405: Store locked up. Disposal considerations: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards:

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Section 4: First Aid Measures

Description of first aid measures

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

Skin contact: Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

Eye contact: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Ingestion: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use: Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

Thermal decomposition generates: Corrosive vapours.

Advice for fire-fighters

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel: Evacuate unnecessary personnel.

Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up:

Clean up methods: On land, sweep or shovel into suitable containers. Minimize generation of dust.
Store away from other materials.

Section 7: Handling and Storage

Precautions for safe handling

Handling: Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Technical protective measures: Provide good ventilation in process area to prevent formation of vapour.

Conditions for safe storage, including any incompatibilities

Storage: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage regulation: Comply with applicable regulations.

Storage - away from: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Specific end use(s): None.

Section 8: Exposure Controls/Personal Protection

Exposure controls

Personal protection:	Avoid all unnecessary exposure.
Respiratory protection:	Wear approved mask.
Hand protection:	Wear protective gloves.
Skin protection:	Wear suitable protective clothing.
Eye protection:	Chemical goggles or face shield.

Section 8: Exposure Controls/Personal Protection (Continued)

Others: When using, do not eat, drink or smoke.

Control parameters

Occupational Exposure Limits: No data available.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C:	Solid.
Colour:	Reddish crystals
Odour:	N/A
Odour threshold:	No data available.
pH value:	Not applicable.
Melting point [°C]:	36 - 39 °C
Decomposition point [°C]:	N/A
Critical temperature [°C]:	N/A
Auto-ignition temperature [°C]:	N/A
Flammability (solid, gas):	N/A
Flash point [°C]:	67 °C
Log Pow octanol / water at 20°C:	No data available.
Solubility:	N/A
Viscosity at 40°C [mm ² /s]:	N/A

Other information

Explosive properties:	N/A
Explosion limits - upper [%]:	N/A
Explosion limits - lower [%]:	N/A
Oxidising properties:	No data available.

Section 10: Stability and Reactivity Data

Reactivity: Not established.

Chemical stability: Stable under recommended storage conditions.

Section 10: Stability and Reactivity Data (Continued)

Hazardous reactions: Not established.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Materials to avoid: Strong acids. Strong bases.

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

Thermal decomposition generates: Corrosive vapours.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity:

Inhalation:	Based on available data, the classification criteria are not met.
Dermal:	Based on available data, the classification criteria are not met.
Ingestion:	Based on available data, the classification criteria are not met.
Corrosion:	Causes severe skin burns and eye damage.
Irritation:	Based on available data, the classification criteria are not met.
Sensitization:	Based on available data, the classification criteria are not met.
Mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Toxic for reproduction:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Toxicity information: Not established.

Persistence - degradability: Biodegradable.

Bioaccumulative potential: Not established.

Section 12: Ecological Information (Continued)

Mobility in soil: Not established.

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Environmental precautions: Avoid release to the environment.

Section 13: Disposal Considerations

Waste Disposal:

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

UN N°: 3263

H.I. nr: 80

ADR - Class: 8

ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

UN N°: 3263

IMO-IMDG - Class or division: 8: Corrosive substance.

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

UN N°: 3263

IATA - Class or division: 8: Corrosive substance.

IATA - Packing group: II

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Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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