OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

TWEEN 20
(Extra Pure)
(Polysorbate 20)
MSDS CAS : 9005-64-5

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name : TWEEN 20
CAS#: 9005-64-5
C.I. No.: Not available.
Synonym : Not available.
Chemical Name: Not available.
Chemical Formula: $C_{58}H_{114}O_{26}$

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
TWEEN 20	9005-64-5	100%

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45
Not classified.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Not classified.

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
Assure fresh air breathing. Allow the victim to rest.

Skin contact
Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact
Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion :
Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Not expected to present a significant hazard under anticipated conditions of normal use.

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

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.**

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 materials for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

Section 7: Handling and Storage

Precautions for safe handling

Handling : **Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.**

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

Specific end uses

Specific end use(s) : **None.**

Section 8: Exposure Controls/Personal Protection

Personal protection : **Avoid all unnecessary exposure.**

- **Respiratory protection** : **Wear approved mask.**
- **Hand protection** : **Wear protective gloves.**
- **Eye protection** : **Chemical goggles or safety glasses.**
- **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 : **Liquid.**

Color : **Golden yellow**

Odor : **N/A**

Odor threshold : **No data available.**

pH value : **No data available.**

Melting point [°C] : **No data available.**

Section 9: Physical and Chemical Properties (Continued)

Decomposition point [°C]	**: N/A**
Critical temperature [°C]	**: N/A**
Auto-ignition temperature [°C]	**: N/A**
Flammability (solid, gas)	**: N/A**
Flash point [°C]	**: 110 °C**
Boiling point [°C]	**: 100 °C**
Initial boiling point [°C]	**: N/A**
Final boiling point [°C]	**: N/A**
Evaporation rate	**: N/A**
Vapour pressure [20°C]	**: < 1.33 hPa at 20 °C**
Vapour pressure mm/Hg	**: N/A**
Vapour density	**: N/A**
Density [g/cm3]	**: 1,095**
Relative density, gas (air=1)	**: N/A**
Relative density, liquid (water=1)	**: N/A**
Solubility in water [% weight]	**: Soluble in water**
Solubility in water	**: N/A**
Log Pow octanol / water at 20°C	**: No data available.**
Solubility	**: 7**
Viscosity at 40°C [mm2/s]	**: N/A**
Molecular Weight	**: 1227.72**

Other information

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

Section 10: Stability and Reactivity Data

Reactivity

Reactivity : Not established.

Chemical stability

Chemical stability : Stable under recommended storage conditions.

Section 10: Stability and Reactivity Data (Continued)

Possibility of hazardous reactions

Hazardous reactions : Not established.

Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products

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

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	: Based on available data, the classification criteria are not met.
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

Toxicity information : Not established.

Section 12: Ecological Information (Continued)

Persistence – degradability

Persistence - degradability : Biodegradable.

Bio accumulative potential

Bio accumulative potential : Not established.

Mobility in soil

Mobility in soil : Not established.

Results of PBT and vPvB assessment

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.

Other adverse effects

Environmental precautions: Avoid release to the environment.

Section 13: Disposal Considerations

Waste treatment methods

General: Avoid release to the environment.

Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG)

General information : Not regulated

Air transport (ICAO-IATA)

General information : Not regulated

Section 15: Other Regulatory Information

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

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

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

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

Chemical Safety Assessment
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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