

MATERIAL SAFETY DATA SHEET (COSHH)**1. IDENTIFICATION OF THE PRODUCT AND COMPANY**

Product Name	Polyoxyethylenesorbitan monolaurate
MSDS#	P1379
CAS Number:	9005-64-5
Synonyms	Polyethylene glycol sorbitan monolaurate
Company identification:	Sigma-Aldrich Company Ltd. The Old Brickyard New Road, Gillingham, Dorset SP8 4XT UNITED KINGDOM
For information, call:	+44 (0)1747 833000
For emergencies, call:	+44 (0)1747 833100

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	Synonyms	Formula	EINECS No.
9005-64-5	Tween 20	Polyethylene glycol sorbitan monolaurate	C ₅₈ H ₁₁₄ O ₂₆	500-018-3

3. HAZARDS IDENTIFICATION**3.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

3.2 Label elements

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

3.3 Other hazards

None

4. FIRST-AID MEASURES

Consult a physician. Show this safety data sheet to the doctor in attendance.

4.1	Inhalation	If inhaled, move person into fresh air. If not breathing, give artificial respiration.
4.2	Eye contact	Flush eyes with water as a precaution
4.3	Skin contact	Wash off with soap and plenty of water.
4.4	Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

This is not a flammable solution.

5.1	Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2	Explosive quality	Nil.
5.4	Specific protective measures for fire fighters	Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES**6.1 *Personal precautions, protective equipment and emergency procedures***

Avoid breathing vapours, mist or gas.

6.2 *Environmental precautions*

Do not let product enter drains.

6.3 *Methods and materials for containment and cleaning up*

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1	Handling guidelines	Normal measures for preventive fire protection.
7.2	Storage guidelines	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

8.1 *Personal protective equipment*

8.1	Eye	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
8.2	Skin	For prolonged or repeated contact use protective gloves.
8.3	Clothing	General industrial hygiene practice.
8.4	Respirators	Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Odour	odourless
pH	No data available
Melting point	No data available
Boiling point	100 °C
Flash point	100 °C - closed cup
Ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 1.33 hPa
Relative density	1.1050 g/cm ³ 0.9850 g/cm ³
Water solubility	soluble

10. STABILITY AND REACTIVITY**10.1 Chemical stability**

No data available

10.2 Materials to avoid

Strong oxidizing agents

10.3 Hazardous decomposition products

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - rat - 40,554 mg/kg
Skin corrosion/irritation	Skin - human - Mild skin irritation - 3 d
Sensitisation	No data available
Chronic exposure	No data available
Potential health effects	<p>Inhalation : May be harmful if inhaled. May cause respiratory tract irritation.</p> <p>Ingestion : May be harmful if swallowed.</p> <p>Skin : May be harmful if absorbed through skin. May cause skin irritation.</p> <p>Eyes : May cause eye irritation.</p>

12. ECOLOGICAL INFORMATION

12.1	Toxicity	Toxicity to fish LC50 - other fish - 350 mg/l - 24 h
12.2	Elimination information (persistence and degradability)	Biodegradability Remarks: no data available
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	No data available
12.6	Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

13.1	Packaging	Can be disposed of as normal waste in accordance with local authority regulations.
13.2	Contaminated Packaging	Dispose of as unused product.
13.3	Product	Observe all federal, state, and local environmental regulations

14. TRANSPORT INFORMATION

No special conditions apply. Not dangerous.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Further information:

This substance is not classified as dangerous according to Directive 67/548/EEC

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

15.2 Chemical Safety Assessment

No data available

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.