



SAFETY DATA SHEET TANGENT SDR

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

1.1. Product identifier

Product name TANGENT SDR
Product number SPR012/5

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

Identified uses Spray enhancer

1.3. Details of the supplier of the safety data sheet

Supplier Headland Amenity Ltd.
1-3 Freeman Court
Jarman Way
Royston
Hertfordshire
SG8 5HW
+44 (0)1763 255550
sds@headlandamenity.com

Contact person Wendy Johnson

1.4. Emergency telephone number

Emergency telephone +44 (0)1763 255550 (09.00 - 17.00 GMT Monday - Friday)

National emergency telephone number 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

TANGENT SDR

Precautionary statements	<p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective clothing, gloves, eye and face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
Contains	2-ETHYLHEXANOL

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

P-MENTH-1-EN-8-OL		50-75%
CAS number: 98-55-5	EC number: 202-680-6	REACH registration number: 01-2119980717-23-XXXX

Classification

Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

2-ETHYLHEXANOL		2.5-10%
CAS number: 104-76-7	EC number: 203-234-3	REACH registration number: 01-2119487289-20-XXXX

Classification

Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
Ingestion	Do not induce vomiting. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Skin contact	Take off contaminated clothing and wash it before reuse. Wash with plenty of water. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Overexposure may cause the following adverse effects: Headache. Drowsiness, dizziness, disorientation, vertigo. Nausea, vomiting.
Ingestion	There may be irritation of the throat. Abdominal pain. Nausea, vomiting.
Skin contact	Skin irritation.

TANGENT SDR

Eye contact Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Powder.

Unsuitable extinguishing media Water.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Toxic gases or vapours.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and dispose of spillage as indicated in Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Provide eyewash station.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place. Keep away from heat. Keep away from food, drink and animal feeding stuffs. Avoid sources of radiation and static electricity. Store at temperatures between 5°C and 30°C.

7.3. Specific end use(s)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

P-MENTH-1-EN-8-OL (CAS: 98-55-5)

TANGENT SDR

PNEC	<ul style="list-style-type: none"> - STP; 2.6 mg/l - Soil; 0.329 mg/kg - Fresh water; 0.068 mg/l - marine water; 0.0068 mg/l - Sediment (Freshwater); 1.85 mg/kg - Sediment (Marinewater); 0.185 mg/kg
-------------	--

2-ETHYLHEXANOL (CAS: 104-76-7)

DNEL	<p>Workers - Dermal; Long term systemic effects: 23 mg/kg</p> <p>Workers - Inhalation; Short term local effects: 106.4 mg/m³</p> <p>Workers - Inhalation; Long term systemic effects: 53.2 mg/m³</p> <p>General population - Oral; Long term systemic effects: 1.1 mg/kg</p> <p>General population - Dermal; Long term systemic effects: 11.4 mg/kg</p> <p>General population - Inhalation; Short term local effects: 53.2 mg/m³</p> <p>General population - Inhalation; Long term systemic effects: 2.3 mg/m³</p>
PNEC	<ul style="list-style-type: none"> - STP; 10 mg/l - Fresh water; 0.017 mg/l - Soil; 0.047 mg/kg - marine water; 0.0017 mg/l - Intermittent release; 0.17 mg/l - Sediment (Freshwater); 0.28 mg/kg - Sediment (Marinewater); 0.028 mg/kg

8.2. Exposure controls

Protective equipment



Eye/face protection

Wear chemical splash goggles. Provide eyewash station.

Hand protection

Chemical resistant gloves. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear protective clothing. Provide eyewash station and safety shower.

Hygiene measures

Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection

Filter mask for gases and vapours. EM 405:2001+A1:2009. CE Cat III.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Golden yellow.
Odour	Chlorine.
Odour threshold	No information available.
pH	pH (concentrated solution): 5.6

TANGENT SDR

Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	> 60°C
Evaporation rate	No information available.
Evaporation factor	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	0.936
Bulk density	No information available.
Solubility(ies)	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	288°C
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No other relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon dioxide (CO₂). Carbon monoxide (CO). Other organic compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

TANGENT SDR

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 111.11

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Inhalation	Overexposure may cause the following adverse effects: Headache. Drowsiness, dizziness, disorientation, vertigo. Nausea, vomiting.
Ingestion	There may be irritation of the throat. Abdominal pain. Nausea, vomiting.
Skin contact	Skin irritation.
Eye contact	Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecological information on ingredients.

P-MENTH-1-EN-8-OL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 10 mg/l, Salmo gairdneri

2-ETHYLHEXANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 28 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 39 mg/l, Daphnia magna

TANGENT SDR

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 11.5 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

Ecological information on ingredients.

P-MENTH-1-EN-8-OL

Biodegradation

- 84.6%: 14 days

12.3. Bioaccumulative potential

Partition coefficient

No information available.

12.4. Mobility in soil

Ecological information on ingredients.

2-ETHYLHEXANOL

Surface tension

28.2 mN/m @ 25°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Dispose of waste product or used containers in accordance with local regulations

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

TANGENT SDR

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	Supplier contact and emergency contact details updated. NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	05/05/2021
Revision	2
Supersedes date	12/10/2017
SDS number	20454
Hazard statements in full	H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.