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 Burr Elm Court
Main Street
Caldicote
Cambridge
Cambridgeshire
CB23 7NU
Tel. +44 (0)1223 491090
sds.enquiries@headlandamenity.com
Contact person: Wendy Johnson

1.4. Emergency telephone number
Emergency telephone: +44 (0)1223 491090 (9.00 - 5.00 GMT Mon-Fri)

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
Pictogram

Signal word: Warning
Hazard statements: H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
TANGENT SDR

Precautionary statements

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

Contains 2-ETHYLHEXANOL

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Compound</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-MENTH-1-EN-8-OL</td>
<td>50-75%</td>
<td>98-55-5</td>
<td>202-680-6</td>
<td>01-2119980717-23-XXXX</td>
</tr>
<tr>
<td>2-ETHYLHEXANOL</td>
<td>2.5-10%</td>
<td>104-76-7</td>
<td>203-234-3</td>
<td>01-2119487289-20-XXXX</td>
</tr>
</tbody>
</table>

Classifications:

- P-MENTH-1-EN-8-OL:
  - Skin Irrit. 2 - H315
  - Eye Irrit. 2 - H319

- 2-ETHYLHEXANOL:
  - Acute Tox. 4 - H332
  - Skin Irrit. 2 - H315
  - Eye Irrit. 2 - H319
  - STOT SE 3 - H335
  - Classification (67/548/EEC or 1999/45/EC)
    - Xn;R21. Xi;R36/37,R41. R52/53.

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. 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 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
- 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 (Marine water); 0.185 mg/kg

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

DNEL
Workers - Dermal; Long term systemic effects: 23 mg/kg
Workers - Inhalation; Short term local effects: 106.4 mg/m³
Workers - Inhalation; Long term systemic effects: 53.2 mg/m³
General population - Oral; Long term systemic effects: 1.1 mg/kg
General population - Dermal; Long term systemic effects: 11.4 mg/kg
General population - Inhalation; Short term local effects: 53.2 mg/m³
General population - Inhalation; Long term systemic effects: 2.3 mg/m³

PNEC
- 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 (Marine water); 0.028 mg/kg

8.2. Exposure controls

Protective equipment

Eye/face protection
- Wear chemical splash goggles.

Hand protection
- Chemical resistant gloves.

Other skin and body protection
- Wear protective clothing.

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

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
- No information available.

Melting point
- No information available.
TANGENT SDR

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
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 None known.

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
Acute toxicity - inhalation
ATE inhalation (vapours mg/l) 15.15

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

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient No information available.

12.4. Mobility in soil

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
TANGENT SDR

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
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 This is first issue.

Revision date 12/10/2017

Revision 1

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.