



SAFETY DATA SHEET

Conforms to Regulation EC 1907/2006 (REACH) as amended by
Regulation (EU) 2015/830

ZER885 – ZERO IN 60-DAY CITRONELLA DIFFUSER

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

1.1. Product identifier

Zero In 60-Day Citronella Diffuser

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

For use as an air freshener

1.3. Details of the supplier of the safety data sheet

STV International Ltd
Forge House
Little Cressingham
Watton
Thetford
Norfolk
IP25 6ND

+ 44 (0) 1953 881 580 (Office hours only)
info@stvpestcontrol.com

1.4. Emergency telephone number

For product information, contact STV International Ltd on the telephone number stated in section 1.3.

In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

For urgent medical advice, call the NHS Helpline on 111 (England, Scotland & Wales).
For medical emergencies, dial 999 (UK & Ireland) or 112 from any EU country.

Environmental agency emergency phone number 0800 807060.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008

Skin Irrit. 2; H315

Skin Sens. 1B; H317

Eye Dam. 1; H318
Aquatic Chronic 2; H411

2.2. Label elements

Product Identifier

Zero In 60-Day Citronella Diffuser
Contains citronellol, geraniol.

Hazard Pictogram

GHS05, GHS07, GHS09



Signal Word

Danger

Hazard Statements

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P302 + P352: IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/ doctor.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P501: Dispose of contents/container in accordance with local/national regulations.

Other labelling required under Regulation (EC) 1272/2008

None

2.3. Other hazards

This mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Chemical Name | CAS/EC No | CLP Annex VI index no. (if any) | Classification in accordance with Regulation (EC) 1272/2008 | Conc. [%] |
|-----------------|------------------------|---------------------------------|---|-----------|
| 2-phenylethanol | 60-12-8/ 200-456-2 | - | Acute Tox. 4 (oral), H302 Eye Irrit. 2, H319 | 10 - 15 |
| Diphenyl ether | 101-84-8/ 202-981-2 | - | Eye Irrit. 2A, H319 Aquatic Acute 1, H400 | 5 – 7.5 |

| | | | | |
|---|-------------------------|--------------|--|---------|
| | | | Aquatic Chronic 3; H412 | |
| Citronellol | 106-22-9/ 203-375-0 | - | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2, H319 | 2.5 - 5 |
| Geraniol | 106-24-1/ 203-377-1 | - | Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 | 2.5 - 5 |
| Galaxolide; 1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8- hexamethylindeno[5,6- c]pyran | 1222-05-5/ 214-946-9 | 603-212-00-7 | Aquatic Acute 1, H400 Aquatic Chronic 1; H410 | <4 |
| Citral | 5392-40-5/ 226-394-6 | 605-019-00-3 | Skin Sens. 1; H317 Skin Irrit. 2; H315 | 0.8 |

Full text of hazard statements is displayed in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move exposed person to fresh air. If breathing discomfort occurs, seek medical attention.

Skin

Wash contaminated skin with plenty of soap and water. Seek medical attention if skin irritation occurs. Remove contaminated clothing and wash before reuse.

Eyes

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Seek medical attention immediately.

Ingestion

Wash out mouth with water. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

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

Seek immediate medical attention if product comes into contact with eyes.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, dry chemical, foam, CO₂, or sand. Use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media

High volume water jet.

5.2. Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

Dangerous gases are evolved in the event of fire.

5.3. Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training.

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

When dealing with spillage to not eat, drink or smoke. Wash hands after dealing with spill.

6.2. Environmental precautions

Avoid dispersal of spilt material and contact with soil, waterways, drains and sewers.

Toxic to aquatic organisms. Inform the relevant authorities if the product enters a watercourse in large quantities.

6.3. Methods and material for containment and cleaning up

Small Spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Dispose of via a licensed waste disposal contractor.

Contaminated absorbent material may pose the same hazard as the spilt product.

6.4. Reference to other sections

See section 1 for emergency contact information.

See section 8 for information on appropriate personal protective equipment.

See section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Ensure there is sufficient ventilation of the area. Do not breathe vapour or mist. Do not ingest. Do not get in eyes or on skin or clothing. Keep in the original container.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry and cool place. Keep separate from food, drink and animal feed.

7.3. Specific end use(s)

For use as an air freshener.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Workplace exposure Limits as defined by UK HSE in document EH40/2005 where available:

| Substance | CAS number | Workplace Exposure Limit | | | | Comments |
|----------------|------------|--|--------------------|--|--------------------|---|
| | | Long-term exposure limit (8-hr TWA reference period) | | Short-term exposure limit (15 minute reference period) | | |
| | | ppm | mg.m ⁻³ | ppm | mg.m ⁻³ | |
| Diphenyl ether | 101-84-8 | 1 | 7 | 2 | 14 | The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances identified in IOELV Directives |

If product contains component(s) with exposure limits, personal, workplace, atmospheric or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use protective respiratory equipment. Reference should be made to European standard EN689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2. Exposure controls

Engineering controls

Ensure there is sufficient ventilation of the area.

Eye/face protection

Eye/face protection is not required for the general handling of this product.

Safety eye wear complying with an approved standard should be used.

Recommended: Tightly fitting safety glasses/goggles.

Ensure eye bath is to hand.

Hand protection

Hand protection is not required for the general handling of this product.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. After contamination with product change gloves immediately and dispose of them according to relevant national and local regulations.

Recommended : (<1 hour) PVC , Nitrile gloves.

Respiratory protection

No personal respiratory protective equipment normally required.

Environmental exposure controls

Steps should be taken to ensure that this product is not released accidentally into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Plastic unit containing vapourising mat

Odour: Characteristic of citronella

Odour threshold: Information not available

pH: Information not available

Melting point/freezing point: Information not available

Initial boiling point and boiling range: Information not available

Flash point: Information not available

Evaporation rate: Information not available

Flammability: Information not available

Upper/lower flammability or explosive limits: Information not available

Vapour pressure: Information not available

Vapour density: Information not available

Relative density: Information not available

Solubility(ies): Information not available

Partition coefficient: n-octanol/water: Information not available

Auto-ignition temperature: Information not available

Decomposition temperature: Information not available

Viscosity: Information not available

Explosive properties: Information not available

Oxidising properties: Information not available

9.2. Other information

None

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is stable under normal storage and handling conditions.

10.2. Chemical stability

Product is stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Avoid release to the environment.

Avoid extremes of temperature and direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicity of product

| | |
|------------------------------------|---|
| Acute toxicity: | Not expected to be toxic. |
| Skin corrosion/irritation: | Product is classified as Skin Irritation Category 2 |
| Serious eye damage/irritation: | Product is classified as Eye Damage Category 1 |
| Respiratory or skin sensitisation: | Product is classified as Skin Sensitisation Category 1B |
| Germ cell mutagenicity: | No information specified. |
| Carcinogenicity: | No information specified. |
| Reproductive toxicity: | No information specified. |
| STOT-single exposure: | No information specified. |
| STOT-repeated exposure: | No information specified. |
| Aspiration hazard: | No information specified. |

Toxicity of ingredients

Acute Toxicity

| Component: | LD ₅₀ (Oral) | LD ₅₀ (Dermal) | LC ₅₀ (Inhalation) |
|--|-------------------------|---------------------------|-------------------------------|
| 2-phenylethanol | 1790 mg/kg (rat) | ca. 800 mg/kg (rabbit) | >1.38 mg/L/4h (rat) |
| Diphenyl ether | 2450 mg/kg (rat) | >5000 mg/kg (rabbit) | No data |
| Citronellol | 3450 mg/kg(rat) | 2650 mg/Kg (rabbit) | No data |
| Geraniol | 3600 mg/Kg (rat) | >5000 mg/kg (rabbit) | No data |
| Galaxolide; 1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8- hexamethylindeno[5,6- c]pyran; | No data | No data | No data |
| Citral | 4960 mg/kg(rat) | 2250 mg/kg(rabbit) | No data |

Skin Corrosion/Irritation

| Component: | | |
|--|--|--|
| 2-phenylethanol | Draize test, rabbit, skin: 100 mg/24H Draize test, guinea pig, skin: 100 mg/24H Draize test, guinea pig, skin: 100% BASF-test, rabbit, skin | Moderate Moderate Mild Not irritating |
| Diphenyl ether | Draize test, rabbit, skin: 500 mg/24H | Mild |
| Citronellol | Draize test, man, skin: 16 mg/48H Draize test, rabbit, skin: 100 mg/24H Draize test, guinea pig, skin: 100 mg/24H | Moderate Severe Severe |
| Geraniol | Draize test, man, skin: 16 mg/24H Draize test, rabbit, skin: 100 mg/24H Draize test, guinea pig, skin: 100 mg/24H | Severe Severe Severe |
| Galaxolide; 1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8- hexamethylindeno[5,6- c]pyran; | Draize test, rabbit, skin: 500 mg/24H | Moderate |
| Citral | Draize test, rabbit, skin: 500 mg/24H Draize test, rabbit, skin: 100 mg/24H | Moderate Severe |

Serious Eye Damage/Irritation

| Component: | | |
|-----------------|--|--------------------------------|
| 2-phenylethanol | Draize test, rabbit, eye: 20 mg Draize test, rabbit, eye: 10 mg | Mild Severe |
| Diphenyl ether | Eye irritation, rabbit | Irritating to eyes |
| Geraniol | Eye irritation, rabbit, 24H | Risk of serious damage to eyes |

SECTION 12: Ecological information

12.1. Toxicity

Toxicity of product

This product is classified as toxic to aquatic life with long lasting effects.

Toxicity of ingredients

| Component: | |
|-----------------|--|
| 2-phenylethanol | No data |
| Diphenyl ether | 96h LC ₅₀ (Fish: Sheepshead minnow): 1.0-2.4 mg/L 48h EC ₅₀ (Crustacea: <i>Daphnia magna</i>): 1.7 mg/L |
| Citronellol | 96h LC ₅₀ (Fish: Golden orfe): 10-22 mg/L 48h EC ₅₀ (Crustacea: <i>Daphnia magna</i>): 17 mg/L 72h EC ₅₀ (Algae): 2.4 mg/L |
| Geraniol | 96h LC ₅₀ (Fish: Zebrafish): 14 mg/L 48h EC ₅₀ (Crustacea: <i>Daphnia magna</i>): 8.98 mg/L |
| Citral | 96hr LC ₅₀ (Fish: <i>Oryzias latipes</i>): 4.1mg/L 96hr LC ₅₀ (Fish: Ide): 4.6-10 mg/L 48hr EC ₅₀ (Crustacea: <i>Daphnia magna</i>): 7 mg/L 72hr EC ₅₀ (Algae: <i>Selenastrum capricornutum</i>): 5 mg/L |

12.2. Persistence and degradability

Information not available.

12.3. Bioaccumulative potential

Information not available.

12.4. Mobility in soil

Information not available.

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Information not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

Dispose of contents/container in the household waste in accordance with all local regulations.

SECTION 14: Transport information

14.1. UN number

UN3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (citronellol, geraniol, galaxolide)

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

Toxic to aquatic life with long lasting effects.

14.6. Special precautions for user

No special precautions.

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

Not applicable.

SECTION 15: Regulatory information

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

This substance is classified and labelled in accordance with Regulation (EC) 1272/2008 and Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

Acute Tox. 4 (oral) – Acute Toxicity Category 4 (oral)

Aquatic Acute 1 - Acute Aquatic Toxicity Category 1

Aquatic Chronic 1 – Chronic Aquatic Toxicity Category 1

Aquatic Chronic 3 – Chronic Aquatic Toxicity Category 3

EC/LC50 – Lethal Concentration 50%

Eye Irrit. 2 – Eye Irritation Category 2

Eye Irrit. 2A – Eye Irritation Category 2A

PBT - Persistent, Bioaccumulative and Toxic

Skin Irrit. 2 – Skin Irritation Category 2

Skin Sens. 1 – Skin Sensitisation Category 1

Skin Sens. 1B – Skin Sensitisation Category 1B

vPvB - Very persistent and very Bioaccumulative

Full text of hazard statements listed in Section 3

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

Comments

Use only in accordance with label instructions.

The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation. The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations. The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the storage and transportation of the preparation. The information in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by STV International Ltd for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.