

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date last verification : 2019-12-06 Version : 1.1

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 : 2018-10-18

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 : 2018-10-18

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

1.1. Product identifier

Safety Data Sheet : 34123

Product name: : GERMACRENE D 85
Substance name : GERMACRENE D

Synonyms: [S-(E,E)]-1-METHYL-5-METHYLENE-8-(1-METHYLETHYL)-1,6-CYCLODECYLDIDIENE

(-)-GERMACRENE D

(S,1Z,6Z)-8-ISOPROPYL-1-METHYL-5-METHYLENECYCLODECA-1,6-DIENE

D-GERMACRENE

1,6-CYCLODECADIENE, 1-METHYL-5-METHYLENE-8- (1-METHYLETHYL)-, [S-(E,E)]-

1(10),4(14),5-GERMACRATRIENE

1,6-CYCLODECADIENE, 1-METHYL-5-METHYLENE-8-(1-METHYLETHYL)-, (1E,6E,8S)-[S-(E,E)]-1-METHYL-5-METHYLENE-8-(1-METHYLETHYL)-1,6-CYCLODECADIENE

3-ISOPROPYL-6-METHYL-10-METHYLENECYCLODECA-1,6-DIENE

CAS No. : 23986-74-5 **EC No.** : 639-624-9

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

Relevant identified uses : Flavouring agents
Uses advised against : No information available.

1.3. Details of the supplier of the safety data sheet

Supplier : ISOBIONICS B.V.

Urmonderbaan 22 Building: 45.01.005 6167 RD Geleen Netherlands : +31 (0)433 020212

Responsible for the compilation of

the SDS on behalf of the supplier/manufacturer

: hazcom@philips.com

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Telephone

1.4. Emergency telephone number

Emergency telephone number (regarding transport of DG): +31 (0)497-598315

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute toxicity, oral Category 4 H302
Aspiration hazard Category 1 H304

2.1.2. Additional information

Full text of H- and EUH-statements: see section 16.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

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Signal word: Danger!

Hazard statements

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

Precautionary Statements

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container according to local hazardous waste disposal regulations.

Hazardous ingredients GERMACRENE D

Remarks on labelling none.

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.1. **Substances**

Substance name	CAS No.	EC No.	REACH No.	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
GERMACRENE D	23986-74-5	639-624-9		≥85.0	GHS07 GHS08 H302 Acute Tox. 4 H304 Asp. Tox. 1

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information : Remove casualty to fresh air and keep warm and at rest. Transport affected person in lying position, in case

of shortness of breath in half-sitting position. Remove contaminated, saturated clothing immediately. Do not

leave affected person unattended. Remove affected person from the danger area and lay down.

: In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. Following inhalation Following skin contact

: Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the

affected skin with a mild cleansing agent and water. When in doubt or if symptoms are observed, get

medical advice.

After eye contact : After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult

an ophthalmologist immediately.

Rinse mouth thoroughly with water. Give nothing to eat or drink. Call a physician in any case! After ingestion

Self-protection of the first aider : No special measures are necessary.

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

Following skin contact local The substance is prickling: redness.

Degreasing: in case of sustained contact a rough, dry skin, eczema.

systemic Probably no absorbtion worth mentioning. After ingestion local The substance is prickling: sore throat.

Chance of pulmonary affections if choked.

The substance may be absorbed after ingestion. svstemic Following inhalation local The substance is with atomising prickling: sore throat.

systemic Probably no absorbtion worth mentioning.

After eye contact local The substance is prickling: redness.

Other information The substance has an effect on: the blood.

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

Notes for the doctor : Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2). • Dry extinguishing powder. • Foam. • Water spray jet.

Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated : Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing. (EN 469)

5.4. Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protection equipment.

6.1.1. For non-emergency personnel

Protective equipment: Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Emergency procedures : Health hazard. Evacuate area. Use personal protection equipment. Transport affected person in lying

position, in case of shortness of breath in half-sitting position.

6.1.2. For emergency responders

Personal protection equipment : Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.3.2. For cleaning up

Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.3.3. Other information

not determined

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling : Provide adequate ventilation.

Measures to prevent fire : No information available.

Measures to prevent aerosol and dust generation : No information available.

Environmental precautions: Avoid release to the environment.

Advices on general occupational hygiene : When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands

before breaks and after work

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Store in a closed container. • Keep cool. • dry. • Store in a well-ventilated place. • dark.

Protect from sunlight.

storage temperature : Recommended storage temperature ≥10 - ≤15 °C

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Requirements for storage rooms and vessels

Storage class
: No information available.

Materials to avoid
: No information available.

Further information on storage conditions
: No information available.

7.3. Specific end use(s)

Recommendation : not applicable

Industrial sector specific solutions : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

Source : TRGS 910, Austrian OEL Regulation, SUVA, Dutch Health Council, 2006/15/EC, 2004/37/EC, Dutch Social-Economic Council (SER), US OSHA, LOLI DB, 2000/39/EC, EU OSHA, GWBB/VLEP, TRGS 900, Gestis, 91/322/EEC, 2017/164/

EU, INRS (Fr), ACGIH®, 2009/161/EU, TRGS 905

20 °C, 1013 mbar: European Union / China / South Korea 25 °C, 1013 mbar: United States / Canada / Japan

[x]: appraisal period x minutes

C: peak limitation H: skin resorptive

S: Statutory threshold limit value

ALARA: As low as reasonably achievable (ALARA principle).

Remark Occupational exposure limit values

none

DNEL (Derived No Effect Level (DNEL-value))

No information available.

PNEC (Predicted No Effect Concentration (PNEC-value))

No information available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Safe handling: see section 7

8.2.2. Personal protection equipment

Eye/face protection: Eye glasses with side protection.

Skin protection

Hand protection : Suitable gloves type: Butyl caoutchouc (butyl rubber).

Body protection: Overall, Apron, Boots, goggles.

Respiratory protection: If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be

worn.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

No further relevant information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance: No information available.Colour: colourless • yellowOdour: No information available.Odour threshold: No information available.

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pH : not applicable

Melting point/freezing point : No information available.

Apparent melting point : not applicable Initial boiling point and boiling range : 308 °C Flash point : 115 °C

Evaporation rate : No information available. flammability : No information available.

Upper/lower flammability or explosive limits

 Upper explosion limit
 : No information available.

 Lower explosion limit
 : No information available.

 Vapour pressure
 : No information available.

 Vapour density
 : No information available.

 Relative density
 : ≥0.870 - ≤0.910 (water=1) (20 °C)

Solubility(ies)

Water : practically insoluble

Partition coefficient: n-octanol/water

GERMACRENE D : >4

Auto-ignition temperature: No information available.Decomposition temperature: No information available.Viscosity: No information available.

9.2. Other information

Critical temperature Tc : not applicable

Fat solubility : No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions.

10.5. Incompatible materials

Oxidising substances • Reducing agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.

10.7. Additional information

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : not applicable

After ingestion : Acute oral toxicity

Skin contact : No Inhalation : No

Skin corrosion/irritation: not applicableSerious eye damage/eye irritation: not applicableRespiratory or skin sensitisation: not applicableGerm cell mutagenicity: not applicableCarcinogenicity: not applicableReproductive toxicity: not applicable

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STOT-single exposure : not applicable
STOT-repeated exposure : not applicable

Aspiration hazard: May be fatal if swallowed and enters airways.

Symptoms

Following skin contact local : The substance is prickling: redness.

Degreasing: in case of sustained contact a rough, dry skin, eczema.

systemic : Probably no absorbtion worth mentioning. **After ingestion** | **local** : The substance is prickling: sore throat.

Chance of pulmonary affections if choked.

systemic: The substance may be absorbed after ingestion.

Following inhalation local : The substance is with atomising prickling: sore throat.

systemic : Probably no absorbtion worth mentioning. **After eye contact** | **local** : The substance is prickling: redness.

Other information : The substance has an effect on: the blood.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

Biodegradation: No information available.Chemical oyxgen demand (COD): No information available.Biochemical oxygen demand: No information available.BOD5/COD ratio: No information available.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF) : No information available.

Partition coefficient: n-octanol/water

GERMACRENE D : >4

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

12.7. Additional ecotoxicological information

Observe local regulations concerning effluent treatment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container to industrial incineration plant. Following consultation with waste management company and after physico-chemical pre-treatment, landfill together with household waste.

Other disposal recommendations : not applicable

SECTION 14: Transport information

14.1. UN number

No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es)

No dangerous good in sense of these transport regulations.

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14.4. Packing group

No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

Marine pollutant: No

14.6. Special precautions for user

No dangerous good in sense of these transport regulations.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

International regulations:

Minamata Convention on Mercury : not applicable

EU legislation

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

not applicable

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH:

not applicable

Overall Assessment on CMR properties

according to Regulation (EC) No. 1907/2006 (REACH): not applicable

Regulation (EC) No 850/2004 [POP-Regulation]

not applicable

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.

not applicable

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Additional information

none

Relevant H-phrases (Number and full text)

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

Abbreviations and acronyms

ACGIH® American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route

AICS Australian Inventory of Chemical Substances

BuAc n-Butyl acetate

CAS Chemical Abstracts Service

CCID New Zealand Chemical Classification and Information Database

DSL Canada Domestic Substances List
ECHA-RAC ECHA Committee for Risk Assessment
EFSA European Food Safety Authority

EHSP OECD Environment, Health, and Safety Publication

EmS Emergency Schedule

EU-CLH European Union Harmonised Classification and Labelling

GESTIS Databases on hazardous substances of the German Social Accident Insurance GHS Globally Harmonised System of Classification and Labelling of Chemicals

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GWBB-VLEP Grenswaarden voor beroepsmatige blootstelling/Valeurs limites d'exposition professionnelle

HHS U.S. Department of Health and Human Services

HSDB Hazardous Substances Data Bank

IARC International Agency for Research on Cancer
IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

INRS French National Research and Safety Institute for the Prevention of Occupational Accidents and Diseases

JP-GHS Japan GHS Basis for Classification Data

KHC Known human carcinogens.
LEL Lower explosion limit
LOLI (List of Lists) Database

n.a. not applicable

NDSL Canada Non-domestic Substance List

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme
NIER South Korea National Institute of Environmental Research Evaluations

NLM United States National Library of Medicine

NTP National Toxicology Program
NZIoC New Zealand Inventory of Chemicals

OECD Organisation for Economic Co-operation and Development

OSHA Occupational Safety & Health Administration

OUE European Odour Unit

RAHC Reasonably Anticipated Human Carcinogen

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SCOEL Scientific Committee on Occupational Exposure Limits (EU)

SIDS OECD Screening Information Data Sets SUVA Swiss Accident Insurance Fund TRGS Technische Regeln für Gefahrstoffe

TSCA The Toxic Substances Control Act Chemical Substance Inventory

TWA Time Weighted Average
UEL Upper explosion limit
UN United Nations

US-EPA United States Environmental Protection Agency

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